

broom center for demography

University of California, Santa Barbara



**The Leonard and Gretchan Broom
Center for Demography**

Annual Report 2021

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The Leonard and Gretchan Broom Center for Demography is an interdisciplinary research center at the University of California, Santa Barbara, and a member of the Association of Population Centers (APC). Its mission is to facilitate research and training in social demography and population studies, with particular emphasis on social and economic inequalities and health disparities. Key issues explored by Center Associates include inequalities across social groups defined by race/ethnicity, immigration status, gender and sexuality; population-environment interactions; the determinants of population health; migration flows; spatial demography; and the allocation of resources within and among families, workplaces, schools, and other social institutions. The Center's physical space is located on the ground floor of North Hall and consists of faculty, administrative, and visitor offices, a graduate-student commons, and a computer lab. This report describes the Center's activities during its tenth year of operation, from July 1, 2020 through June 30, 2021.

The Broom Center for Demography was established in October 2011 with generous funding from Leonard and Gretchan Broom and under the leadership of Founding Dean Melvin Oliver and Inaugural Director Peter Kuhn. Leonard Broom was a distinguished professor of sociology whose seven-decade long academic career included appointments at UC Los Angeles, University of Texas at Austin, the Australian National University, and finally UC Santa Barbara. Leonard Broom served as editor of sociology's flagship journal, *American Sociological Review* (1955-57) and he coauthored (with Philip Selznick, UC Berkeley) one of the first and most successful textbooks in sociology, *Sociology: A Text with Adapted Readings*, originally published in 1955. Leonard Broom's research on the effects of US internment of Japanese-Americans during WWII made him an early public critic of that policy and shaped a lifelong interest in social inequality that lives on in the Broom Center's thematic foci.

The Center is directed by Professor of Sociology Maria Charles. Shelly Lundberg, the Leonard Broom Professor of Demography, is the Center's Associate Director, and Trea DePrima is the Program Administrator. Sociology graduate student Jason Budge served as Manager of the Social Demography Lab during the 2019-20 and 2020-21 academic years. The Advisory Board includes Maria Charles (Sociology), Michael Gurven (Anthropology), Susie Cassels (Geography), Shelly Lundberg (Economics), Heather Royer (Economics), and Erika Arenas (Sociology), plus two ex officio members: Director of the Institute of Social, Behavioral, and Economic Research (ISBER), Stuart Smith, and SAGE Sara Miller McCune Dean of Social Sciences, Charles R. Hale.

The Broom Center currently consists of 32 faculty and postdoctoral *Research Associates* and 55 *Graduate Associates* spanning nine disciplines (Anthropology; Ecology, Evolution & Marine Biology; Economics; Geography; Linguistics; Marine Science; Political Science Psychological and Brain Sciences; and Sociology). During the last academic year, the Center has been fortunate to welcome new Broom Center Research Associates Michelle Brown (Assistant Professor of Anthropology) and John Park

(Professor of Asian American Studies and Director of the UCSB Migration Initiative), as well as twelve new Graduate Associates. Several Broom Graduate Associates also finished their PhDs during the 2020/21 academic year and have moved on to new positions in academia, government, and beyond. These include Sari Blakely (post-doctoral researcher at University of Georgia, Athens), Corbin Hodges (post-doctoral researcher at UCSB), Alex McQuilkin (US Government Accountability Office), Ganghua Mei (Teacher at China Agricultural University), and Danae Hernández-Cortés (Assistant Professor at Arizona State University).

The Broom Center's *Social Demography Computer Lab*, located in North Hall, offers a graduate-student commons and meeting space, desktop computers and diverse software including the qualitative data analysis package Atlas.ti, statistical packages like Stata, SAS and SPSS, and flexible programming languages like Matlab and R. Just prior to the COVID shutdown computer lab was renovated and reconfigured to include more collaborative workspace, a large wall-mounted video display for presentations, and improved wireless connectivity. Student and faculty affiliates look forward to resumption of in-person activities and interactions with the lifting of health-related restrictions. Support on software, statistics, and study design has been provided by Social Demography Lab Manager and Sociology PhD student Jason Budge. In Fall 2021, Geography PhD student Sophia Arabadjis will assume these duties.

The *Biobehavioral Health Laboratory* is a resource for those interested in the intersection of life and social sciences. This fully functional BSL-2 wet lab allows measurement of stress biomarkers, immune function, nutritional status, infection, and reproductive hormones to explore the individual and population-level determinants of human health from infancy to old age. Specializing in high-throughput biomarker quantification in blood, urine, and saliva, this facility serves UCSB researchers and others interested in biological aspects of human health and development in clinical, field, and experimental settings. Following a COVID-related shutdown, the lab resumed its operations under the leadership of Broom Biodemography Area Director Michael Gurven. The laboratory is co-directed by Broom Research Associates Amy Boddy and Michelle Brown. Dr. Nicole Thompson González will assume duties as the Biobehavioral Health Lab Manager, effective Fall 2021.

Despite the challenges posed by a global pandemic and campus shutdown, Broom Research and Graduate Associates maintained active research and funding agendas in 2020/21, as summarized in **Appendices 1 and 2**.¹ Center affiliates produced dozens of peer-reviewed journal articles, chapters, and books during the past year, while also managing active research grants totaling more than \$20 million, including through highly competitive awards from the National Institutes of Health, National Institute of Environmental Health Sciences, National Science Foundation, National Cancer Institute, California Environmental Protection Agency, Global Environment Facility, USDA Forest Service, Templeton Foundation, and Russell Sage Foundation. A searchable list of [Broom Center publications](#) is available on the Center's website. Research highlights under each of six thematic areas are discussed further on.

¹ The count of publications in Appendix 1 includes all items that were published in 2020 or 2021, or forthcoming at the time of this writing. To ensure comparability over time, the Center uses the same approach in all its reports.

Broom Center researchers continued to collect new honors and awards and to serve on dozens of editorial and advisory boards and research initiatives during the last academic year as well. Some recent honors, listed in **Appendix 3**, include a 2020 Distinguished Lifetime Achievement Award to Brenda Major from the International Association of Self and Identity, and a MacArthur Research Chair to Victor Rios for his collaborative project, “A New Eden in Southern California: Promoting Black and Brown Futures in Resilient Communities. The Broom Center faculty roster includes multiple elected fellows of the American Academy for the Advancement of Science, the American Academy of Arts and Sciences, and other distinguished research bodies.

Research by Broom Center Research and Graduate Associates received significant media attention in 2020-21 (see **Appendix 4**). Research by Biodemography Area Director Michael Gurven and his team was again the subject of a great deal of high-profile national and international coverage, including on body temperature regulation, health transitions, coronary heart disease, and aging in indigenous populations, in the *New York Times*, *India Tribune*, *Science Times*, and *Smithsonian Magazine*, among other outlets. Broom’s expertise in gender and family policy reached beyond the academy as well, including through a blog post by Sarah Thébaud on millennial men’s responses to supportive work-family policies, and multiple articles on gender and STEM featuring Maria Charles’ research, and on Biden’s universal pre-K plan featuring Cathy Weinberger’s research.

Despite a total shutdown of the physical campus, the Broom Center was able to continue its tradition of lively and well-attended seminars every other Monday afternoon. During the 2020/21 academic year, the [Seminar Series](#) moved to a fully remote format to present research talks by distinguished speakers from UCSB and around the state, country, and world. This year’s lineup included Andrew Foster (Brown, Economics), Alexandra Killewald (Harvard University, Sociology), Jennifer Beam Dowd (University of Oxford, Demography and Population Health), Khandis Blake (University of New South Wales), Michelle Budig (University of Massachusetts Amherst, Sociology), Rebecca Sear (London School of Hygiene and Tropical Medicine), Gabriella Conti (University College London, Economics), Liana Sayer (University of Maryland, Sociology), Rachel Carmody (Harvard, Human Evolutionary Biology), Goleen Samari (Columbia, Population and Family Health). John Park (UCSB, Asian American Studies), Andrew Tatem (University of Southampton, Geography), Andrés Villarreal (UCLA, Sociology), and Peter Q. Blair (Harvard Graduate School of Education). **Appendix 5** provides more information on talks and speakers.

Visitors enrich the intellectual life of the Broom Center and have provide diverse opportunities for research cross-fertilization and interdisciplinary collaborations since the Center’s founding. One of the unfortunate results of the global shutdown was our inability to host visitors during the 2020-21 academic year. Associates look forward to resuming this practice once local, national, and global restrictions are lifted.

During the past pandemic year, the Broom Demography Center sponsored diverse timely and well-attended special events in virtual format, including a student-faculty symposium on COVID-19

Impacts, a UC-wide event on Race and Inequality, and an Alumni Career Panel. *The COVID Symposium*, in September 2020, showcased in-progress research by 17 faculty and student Broom affiliates exploring the disparate impacts of COVID-19, interventions for equity, and how to model COVID spread. In October 2020, the Broom Center took the lead in organizing the inaugural event of “UCPop” (Population Centers of the University of California). This *Race and Inequality Mini-conference* featured a keynote talk by Tukufu Zuberi (Lasry Family Professor of Race Relations, and Professor of Sociology and Africana Studies, University of Pennsylvania) titled "Demography of Race: The Propaganda of Demography." Following the keynote talk were breakout sessions featuring research presentations by graduate-student associates of the four UC population centers (Santa Barbara, Berkeley, Los Angeles, Irvine) and faculty respondents. In May 2021, the Center sponsored a very well-received Career Panel featuring Graduate Alumni of the Broom Center, who talked about their diverse professional experiences and answered questions about the job search process, academic and non-academic jobs and further training for PhDs in demographic fields, and professional rewards/pitfalls in the early career process. More details on all three events can be found in **Appendix 6**.

To support dissertation research and training of Broom Graduate Associates through the disruption of the past year, the Broom Center added a round of *Graduate Student Research and Travel (GSRT) grants* in Fall 2020 to supplement its regular Spring Quarter funding call. The Center also covered conference fees for students’ virtual attendance at the 2021 annual meeting of the Population Association of America. **Appendix 7** provides a complete list of the Center’s 2020-21 awards, which totaled approximately \$14,000 to 10 students.

To facilitate demographic training, the Broom Center operates a series of *Mini-Courses*, taught by the computer lab manager and other UCSB graduate students and faculty. These modules are typically two-hour hands-on sessions on research methods or software. **Appendix 8** provides details on 2020-21 Mini-Courses, which included remote workshops on ethnographic methods, the open-source programming language R, statistical analysis with Stata, Python programming, and multilevel modeling. Due to restrictions on in-person gatherings, Graduate Lab Lunches, which include opportunities for feedback on in-progress student work, were cancelled in 2020/21.

Since 2015, the Broom Center has coordinated an *Interdisciplinary PhD Emphasis in Demography* that allows students in Anthropology, Economics, Geography, Global Studies, and Sociology to add a Demography emphasis to their doctoral degrees. Training includes a common core course in demographic methods, a proseminar, and a choice of demographically oriented electives in four participating departments. In the required reading/discussion group, Emphasis students read work of UCSB demographers, meet with Broom faculty affiliates and Seminar speakers, and discuss their own preliminary research plans. About a half dozen students from four departments are currently participating in the program. An overview of the PhD Emphasis and its requirements can be found in **Appendix 9**.

During the 2020-21 academic year, UCSB's Broom Center participated in the establishment of the *NextGenPop* consortium, a new network of 27 population research centers committed to diversifying the demography field and nurturing the next generation of population scientists. With support from the Association of Population Centers (APC) and the Population Association of America (PAA), consortium leaders developed a successful grant proposal, "*NextGenPop: Recruiting the Next Generation of Scholars into Population Research*." The Eunice Kennedy Shriver National Institute on Child Health and Human Development (NICHD) will provide five years of funding for an intensive, collaborative summer training program serving undergraduates interested in pursuing demographic research. A first cohort will be hosted at the University of Wisconsin-Madison in summer 2022.

Appendix 10 provides a description of the *NextGenPop* program.

Research and education at the Broom Center is organized into **six overlapping interdisciplinary areas**: *Family, Biodemography and Evolution, Population Health and Environment, Sex and Gender, Education and Health, and Immigration, Race and Ethnicity*. Each is guided by an area director, who also sits on the Broom Center Advisory Board. Reports on the Center's research areas follow.

Research Highlights: Family

The Broom Center's Family Demography area is directed by Shelly Lundberg, who is also the Broom Professor of Demography and the Associate Director of the Broom Center. In total, 12 Research Associates and 18 Graduate Associates from Sociology, Economics, Anthropology, Political Science, and Geography conduct research and publish within this theme. There are strong research connections across research areas at the Broom Center, with work in Family Demography also contributing to knowledge in the areas of Sex and Gender, Biodemography and Evolution, and Education and Health in particular. This year, the highlighted publications focus on youth—in particular 'child marriage' in Tanzania and other low-income nations and adolescent development in US schools.

In "Married Too Young? The Behavioral Ecology of 'Child Marriage'" (published in *Social Sciences*), Broom Research Associate David Lawson and UCSB Postdoctoral Scholar Susan Schaffnit take a broad view of early marriage, which has been targeted by global health campaigns on the basis of its negative consequences for wellbeing. The authors examine four possible reasons for the persistence of this practice using the theoretical framework of human behavioral ecology. Early marriage may be an adaptive response to short life expectancy and economic disadvantage, or it may reflect parent-child conflict, enabling parents to profit at their daughter's expense, or girls to emancipate themselves from family labor. The ability of these separate factors to explain the prevalence of early marriage is context-dependent, highlighting the need for policies to protect the young to be context-dependent as well.

Schaffnit and Lawson (with co-authors Mark Urassa, Joyce Wamoyi, and Maria Dardoumpa) conduct a survey in a community in Tanzania in which marriage under 18 years is common to explore whether perceptions of 'child marriage' were shifting in populations targeted by global health campaigns. In in-depth interviews with adolescent girls and young women, they found that respondents

could not agree as to whether child marriages occurred in the community, as the concept was often conflated with forced marriage, which is uncommon. The authors also find that narratives about actual early marriages did not conform to the global narrative about the causes and harmful consequences of such marriages, and argue that engaging with local views and experiences will be an important component of designing initiatives targeted at vulnerable young women. This paper was published in *Plos One*.

In "Educational Gender Gaps" (published in *Southern Economic Journal* and based on the Association Lecture at the 2020 Meeting of the Southern Economic Association), Broom Research Associate Shelly Lundberg argues that the underachievement in school by boys has been understudied relative to another educational gender gap—the low rates of participation in STEM fields by girls. She examines a longitudinal study of young Americans and finds that, contrary to the current discourse in economics, school behavior and measured skills are not very important drivers of gender differences, particularly in the transition to college. Educational aspirations, on the other hand, are strongly predictive of educational gaps and the gender difference in aspirations cannot be explained, even with rich adolescent data that includes parental expectations and school achievement indicators. These results suggest that gender identity concerns may influence (and damage) the educational prospects of boys as well as girls through norms of masculinity that discourage academic achievement.

Broom Graduate Associate Ziteng Lei uses the same school-based data (the National Longitudinal Study of Adolescent to Adult Health) in "Short-run and Long-run Effects of Peers from Disrupted Families" (published in the *Journal of Population Economics*). He finds that girls are mostly unaffected by peers in school from disrupted families, while boys exposed to more peers from disrupted families exhibit more school problems in adolescence (though there are no effects on academic performance) and higher arrest probabilities, less stable jobs, and higher probabilities of suffering from financial stress as young adults. He argues that the increase in family disruption in the USA should receive more attention, as the intergenerational mobility and inequality consequences could be larger than anticipated as a result of classroom spillovers.

Research Highlights: Biodemography and Evolution

The Broom Center's Biodemography area is directed by Michael Gurven. In its tenth year, this area has nine research associates and thirteen graduate student associates, spanning anthropology, geography, economics and sociology departments. Many of the theme's publications stem from the Evolutionary Anthropology and Biodemography Research Group, where the Tsimane Health and Life History Project (THLHP) (directed by Gurven) forms a central role (<http://tsimane.anth.ucsb.edu>). THLHP has been continuously funded by NIH/NIA since 2004.

Area publications demonstrate the value of an evolutionary approach on a variety of themes that span across the social and natural sciences. An impressive forty-five publications from Aug 15, 2020-Aug 31, 2021 appear in diverse, prestigious journals, such as *Science*, *eLife*, *Nature Human Behaviour*, *Science Advances*, *Molecular Biology & Evolution*, *Evolution*, *Medicine & Public Health*, *J. of*

Gerontology Series A, and *Evolutionary Applications*. Highlighted below are some of the notable findings published by Broom faculty and graduate students in the past year.

Broom faculty associate Amy Boddy studies the evolutionary and ecological components of human health, with a focus on cancer. In *iScience*, Boddy leads a review about the merits of comparative oncological studies across the tree of life—an initiative she continues to uphold in her own research that has worked to compile the largest datasets of tumors and cancer prevalence to date across species. A perspective piece in *Evolutionary Applications* outlines an eco-evolutionary approach at the intersection of oncology, ecology and evolutionary sciences. This tour-de-force lays out 84 key questions for a foundation for future research. Another important focus of Boddy's is to understand why cancer may be rare in some species. Her work in *Molecular Biology & Evolution* on Asian and African elephant genomes highlights key differences in cancer defense mechanisms among species, and illustrates how genomics can help inform functional immunological studies.

Broom faculty associate David Lawson and colleagues published a comment in *Nature Human Behaviour* urging for more equitable collaboration in cross-cultural studies between researchers in low- and middle-countries, and those from high-income countries. They outline critical steps forward to help decolonize the social sciences. Other papers reflect work done at Lawson's ongoing field site in rural Tanzania with international collaborators. For example, in *Evolution & Human Behavior*, Lawson shows that the well-documented husband-older spousal age gap did not associate with lower well-being, autonomy or divorce in rural Tanzania. Their findings suggest husband-older marriage does not influence marital stability, that relatively large spousal age gaps are neither especially costly nor beneficial to women, and that other factors are important in driving variation in women's wellbeing and fertility.

Broom associates Gurven, Thomas Kraft and graduate student Sarah Alami showed in *Science Advances* how body temperature among Tsimane Amerindians has declined over the past two decades, on par with the decline observed in the U.S. over the past two centuries. This finding suggests changing health and living conditions are favoring lower metabolism. The study was covered in the *New York Times*. Analysis of Tsimane metabolism combined with many other populations as part of the IAEA Doubly-Labeled Water (DLW) Database Consortium showed that total daily energetic expenditure falls into four stages across the life course, with some surprising, impactful findings, such as metabolism not slowing down in middle adulthood. These findings were published in the premier scientific journal, *Science*, and have garnered much national and international attention, including *The Colbert Report*.

In *Philosophical Transactions of the Royal Society*, Gurven, Kraft and Alami leverage years of detailed biomarker data on Tsimane physical condition to examine what aging looks like in terms of patterns of physiological dysregulation across biological systems. This is the first time biological aging has been characterized in a small-scale subsistence population.

Gurven's group also showed in *eLife* that wealth and inequality lead to differences in health and well-being among Tsimane, despite living under more egalitarian conditions. These reflect similar, though more muted, effects of socioeconomic status and income inequality on health in industrialized

countries. With Princeton colleagues, Gurven et al. reported in *Science Advances* how urbanization and market integration affect cardiometabolic health among Turkana pastoralists and farmers in rural Kenya. The rare setting of lifestyle gradients shows how “Western diet” and population pressure from urban living lead to great diabetes and cardiovascular disease risk.

Two Broom associates received National Science Doctoral Dissertation Grants, with Gurven as PI: Alami (\$25,200, “Drivers and consequences of intermarriage on social networks and risk-buffering”) and Anderson (\$31,044, “The skeletal biology of porous cranial lesions”). Gurven also received a supplement to his NIH grant (additional \$382,250).

The Human Biodemography and Health Laboratory in BioEngineering had an Open House to celebrate its opening. Gurven was a founding director of the lab, but it is currently co-directed by Broom faculty associates Amy Boddy and Michelle Brown. While its use was more limited due to pandemic-related shutdown during the past year, activity renewed once campus restrictions relaxed. A new lab manager, Nicole González-Thompson will assume duties starting Sept 2021.

Research Highlights: Population Health and Environment

Professor Susan Cassels (Geography) directs the Center’s Population Health and Environment research area. This area has 20 graduate student associates, 2 postdoctoral researchers, and 10 faculty research affiliates spanning multiple disciplines. Research under this theme focuses on the interactions between human populations and their physical and social environments in order to understand the implications for health disparities as well as environmental change.

One of the unifying themes of the work produced by Population Health and Environment research affiliates was a focus on health equity and underrepresented groups. Dr. Kelsey Jack (Bren) and colleagues published a couple of articles examining the adoption of new technologies among populations in sub-Saharan Africa. They found that among poorer and in-debt customers, using pre-paid electricity meters resulted in lower electricity use as well as lower cost. Dr. Natasha Krell (Graduate research alumna) led research on how mobile phone services have transformative potential to provide rural African farmers important agro-meteorological information. Dr. Cassels (Geography) and colleagues published articles regarding drivers of HIV risk for gay, bisexual and other men who have sex with men, and found that high rates of mobility and lack of place attachment may heighten risk, but that risk is moderated by social support. Dr. Lopez-Carr and some Geography graduate students demonstrated that urban fishing is used as subsistence for under-privileged communities here in Santa Barbara, and thus that we need to balance this need with marine regulations.

Rigorous and innovative methodologies featured prominently among affiliates’ research this year as well. Topics included a useful review of publicly available geospatial datasets for drought monitoring (Mwenda & Lopez-Carr), an explanation of geo-spatial technologies to assess and predict environmental risk (Murray), and a call to incorporate more structural determinants of health and inequity in models of infectious disease dynamics (Cassels and Van Den Abbeele). A number of research affiliates suggested improved methods to examine mobility and health as well, including racial patterns

of mobility networks (Murray) and the temporal scale of mobility (Cassels, Mwenda). Dr. Tuholski (Graduate affiliate alumnus) and colleagues combined spatially explicit gridded population, land-use, infrastructure, and climate datasets to identify rapid population growth in secondary urban areas in sub-Saharan Africa. Lastly, Dr. Murray used rigorous spatial optimization methods to suggest effective seating arrangements in classrooms to minimizing COVID exposure.

Other notable research from affiliates in the Population Health and Environment arose from rich and productive collaborations. Here we highlight two such collaborations. Dr. Lopez-Carr and colleagues from Senegal and Stanford University have published research on dams, watersheds, and agricultural innovations to promote health and sustainability, and demonstrated that increased contact with irrigated landscapes drives exposure to infectious disease risk such as schistosomiasis. Dr. Boddy (Anthropology) is collaborating with cross-disciplinary experts to identify key questions and pave the foundation to using the eco-evolutionary framework to understand cancer.

Research Highlights: Sex and Gender

Comprised of twelve faculty associates and fourteen graduate student associates spanning seven campus departments, Broom's Sex and Gender Area affiliates produced an impressive collection of cutting-edge scholarship over the last research period. This thematic area is coordinated by Maria Charles, who is also Director of the Broom Center, Professor of Sociology, and faculty affiliate of the Feminist Studies Department at UCSB. Area associates explore gender and sexuality at multiple analytical levels and using diverse analytical approaches, with topics ranging from gendered identities, attitudes, and individual interactions to the mapping of local and global trends in employment, family structures, and belief systems. Selected recent examples are described below.

Over the past year, Sex and Gender affiliates have published multiple articles that explore how gender attitudes vary across time, space, and/or demographic groups. In "He For She? Variation and Exaggeration in Men's Support for Women's Empowerment in Northern Tanzania," Broom Associate and anthropologist David Lawson and coauthors interrogate gender attitudes in the East African context. Results, published in *Evolutionary Human Sciences*, show that men's (reported) support for women's empowerment increases with socioeconomic status (a potential indicator of material security and exposure to egalitarian gender norms), but is unrelated to fertility, polygyny, and spousal age gaps (potential indicators of sexual conflict). By comparing self- and wife-reported measures of men's attitudes, the authors also reveal a tendency for men to exaggerate their support for women's empowerment. Discrepancies in reporting are largest among men who claimed the strongest support, but smallest among men who held a professional job and whose wife worked for pay, suggesting that women's labor force attachment may either reflect or elicit more genuine support for gender equality.

Turning to the U.S. context, Graduate Associate Rujun Yang and Broom Director Maria Charles use data from the 2016 National Asian American Survey to examine variation across Asian American groups in support for policies that would extend rights and protections to women and sexual and gender

minorities. Results provide no evidence of pan-Asian gender traditionalism and show much more attitudinal heterogeneity across Asian ethnic groups than is generally recognized. Some of this heterogeneity is attributable to ethnic differences in sociocultural traits, such as religion, politics, nativity, and education, but substantial unexplained variability may reflect distinctive gender regimes in ancestral countries and different histories of immigrant reception within the United States. "Traditional Asians? Race, Ethnicity, and Gender Policy Attitudes in the United States," appeared in a special issue of *RSF: The Russell Sage Foundation Journal of the Social Sciences* on Asian Americans and the Immigrant Integration Agenda. Results challenge American stereotypes that depict the pan-Asian culture as monolithically traditional in matters of gender and sexual politics.

Labor market inequality continues to be a focus of Broom Center Sex and Gender Area scholars. In one high-profile article, "The Specter of Motherhood: Culture and the Production of Gendered Career Aspirations in Science and Engineering," Broom Center sociologists Sarah Thébaud and Cate Taylor offer novel insights into the mechanisms contributing to inequality in academic careers. Based on 57 in-depth interviews with U.S.-based PhD students and postdoctoral scholars, the authors show how even the anticipation of future parenthood can reduce the perceived professional legitimacy of young women and dampen aspirations for STEM careers. Thébaud and Taylor argue that this "specter of motherhood" influence the career plans of young, childless scientists and engineers by amplifying anticipatory concerns about combining motherhood with an academic career. This article was published in *Gender & Society*.

Research Highlights: Education and Health

The Broom Center's Education and Health Area Director is Heather Royer. Dr. Royer is Professor of Economics, Research Associate at the National Bureau of Economic Research, IZA Institute of Labor Economics Research Fellow, and Abdul Latif Jameel Poverty Action Lab Affiliate. This research area includes 45 affiliates from a diversity of fields including Anthropology, Economics, Geography, Global Studies, Psychological and Brain Sciences, and Sociology. For the 2020-2021 period, Education and Health researchers produced 17 publications in journals such as *Developmental Psychology*, *Health Affairs*, *Group Processes and Intergroup Relations*, *Evolution, Medicine, & Public Health*, *Journal of Labor Economics*, *Social Science Research*, *Southern Economic Journal*, *Proceedings of the National Academy of Sciences*, and *Early Childhood Research Quarterly*. Examples of these studies are below.

Affiliate Brenda Major and co-authors investigate how the transition to college affects the stress experienced by underrepresented minority groups in a recently published paper in *Personality and Social Psychology Bulletin*. They associate anticipated and experienced discrimination with sleep patterns. According to their findings, students who face discrimination in their first term of college suffer from poorer sleep patterns. These patterns are bi-directional too with sleeping affecting discrimination too.

In a publication appearing in *Evolution, Medicine, & Public Health*, Affiliate Michael Gurven along with collaborators, studies how immune responses evolve across pregnancy in two distinct populations – women residing in the United States and Tsimane women (an Amazonian subsistence group). The Tsimane women provide an interesting contrast as they reside in a pathogen-rich environment. Much of the existing evidence of what constitutes a “normal” pregnancy is derived from observing pregnancy in industrial societies. This work expands the scope of study populations and documents considerable differences in immune responses of healthy pregnancies across these two populations.

Early childhood education provides a window of opportunity to reduce early differences in skill acquisition between non-minority and minority groups. Despite this, rates of enrollment in early childhood programs among Mexican origin families are depressed relative to their white and black counterparts. Liz Ackert and co-authors in a paper published in the journal *Early Childhood Research Quarterly* study the possible community-level factors driving these patterns. The supply of childcare centers positively affects the enrollment of Mexican-origin families. Also, the presence of immigrant enclaves matters, especially for the least assimilated families. When the fraction of Latinos in an area rises, the fraction of Mexican-origin families enrolling their children in these centers increases. This study suggests that policies tailored to outreach for this community such as the production of bilingual and culturally appropriate materials may boost the participation in early childhood programs for children of Mexican-origin families.

Research Highlights: Immigration, Race and Ethnicity

Broom’s Race, Ethnicity, and Immigration area was directed during the 2020-21 academic year by Assistant Professor of Sociology Erika Arenas. On May 2021, Arenas organized a multidisciplinary research group formed by UCSB Faculty across the Social Sciences, to present their research related to migration and health, with the idea of fostering collaborations across campus. The group was funded by UCSB Chicano Studies Institute.

The Race, Ethnicity, and Immigration area includes 14 research associates and 23 graduate student associates from Anthropology, Economics, Geography, Political Science, Global Studies, and Sociology. For the 2020-2021 period, researchers won several grants, and awards, and produced journal articles published in *Health Affairs*, *Developmental Psychology*, *the Journal of Marriage and Family*, *Group Processes and Intergroup Relations*, *Issues and Policy Review*, *Personality and Social Psychology Bulletin*, *Land Use Policy*, and *Early Childhood Research Quarterly*.

In terms health and migration, during this period Broom Associate Elizabeth Ackert investigated how health contexts differ between new and traditional Latinx destinations in a paper published in *Health Affairs*. Area Director Erika Arenas and co-authors published a paper in the *Journal of Marriage and Family* investigating the scale and scope of family separation among Mexican immigrants in the U.S. and the association between family separation and immigrants' emotional health. Broom Associate Brenda Major co-authored a paper studying the physical health consequences of discrimination and

prejudice, and a paper examining the associations between anticipated and experienced ethnic/racial discrimination and sleep, published in 2020 in *The Wiley Encyclopedia of Health Psychology and Personality and Social Psychology Bulletin*, respectively.

Articles in other topics included, a paper by Ackert and co-authors - published in *Early Childhood Research Quarterly*- that examined the used of early care and education programs among Mexican-origin families; and a paper by Major and co-authors examining whether pro-diversity values make companies more attractive workplaces for underrepresented groups - published in *Group Processes & Intergroup Relations*. Finally, Broom Associate Lopéz-Carr examined the relationship between forest cover change and migration, population, and economic processes, in Mexico from 2001 to 2010. His paper was published in 2020 in *Land Use Policy*.

In terms of grants and award, during this period Ackert received a National Science Foundation Award to examine the association between kin location and neighborhood disadvantage, and health across the life course. In addition, Arenas received a grant from the UCSB Migration Initiative to conduct a pilot study that will examine how older undocumented Mexican adults, currently living in California, are experiencing the public health crisis associated with COVID-19. Finally, Lopéz-Carr received a UCSB Senate Faculty Research Grant to investigate how women's health, livelihoods, and empowerment may lead to forest conservation in the Maya Biosphere, Guatemala.

Appendices

1. Publications
2. Active Funding
3. Honors and Recognition
4. Media Attention and Public Policy Contributions
5. Seminar Schedule
6. Workshops
7. Graduate Research and Training Grants (GRTG) Awarded
8. Methods Mini-Courses and Graduate Student Presentations
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10. *NextGenPop*: Recruiting the Next Generation of Scholars into Population Research

Appendix 1

Publications, 2020 and 2021²

Elizabeth Ackert

Ackert, Elizabeth, Matthew Snidal, and Robert Crosnoe. Forthcoming, 2021. The Development of STEM Efficacy and Identity among Mexican-Origin Youth across Latino/a Destinations. *Developmental Psychology*.

Ackert, Elizabeth, Sung Hee Hong, Jessica Martinez, Gabriel Van Praag, Pedro Aristizabal, and Robert Crosnoe. 2021. Understanding the Health Landscapes where Latinx Immigrants Establish Residence in the United States. *Health Affairs*. 40(7): 1108-1116.
<https://doi.org/10.1377/hlthaff.2021.00176>

Ackert, Elizabeth, Robert Ressler, Arya Ansari, and Robert Crosnoe. 2020. Community Contexts, Supply of Early Childhood Programs, and Pre-Kindergarten Enrollment among Mexican-Origin Children. *Early Childhood Research Quarterly*. 52(A):4-14.
<https://doi.org/10.1016/j.ecresq.2018.09.008>

Ressler, Robert W., Elizabeth Ackert, Arya Ansari, and Robert Crosnoe. 2020. Race/ethnicity, human capital, and the selection of young children into early childhood education. *Social Science Research* 85: 102364.

Amy Anderson

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AO O'Donnell, E Hill, AS Anderson, H Edgar. 2020. Cribra orbitalia and porotic hyperostosis are associated with respiratory infections in a contemporary mortality sample from New Mexico. *American Journal of Physical Anthropology*. Accepted.

² To facilitate comparability of research output over time, this appendix reports all publications by Center Associates in 2020 and 2021, plus all accepted and forthcoming items. Items with multiple Broom authors are listed more than once in this report.

Sophia Arabadjis

Arabadjis, S.D., Sullivan, E.E. 2021. Data and HIT Systems in Primary Care Settings: an Analysis of Perceptions and Use. *Journal of Health Organization and Management*. Vol. 35 No.4, pp.425-442, PMID 33354961. <https://doi.org/10.1108/JHOM-03-2020-0071>

Erika Arenas

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Amy Boddy

Gunst A, Sudén M, Korja R, Boddy AM, Kotler J, Paavonen EJ, Karlsson L, Karlsson H, Antfolk J. 2021. Postpartum depression and mother-offspring conflict over maternal investment. *Evolution, Medicine and Public Health*. 9.1 11-23.

Ujvari B, Dujon A, Aktipis A, Alix-Panabières C, Amend S, Boddy AM, Brown J, Capp JP, DeGregori J, Ewald P, Gatenby R, Gerlinger M, Giraudeau M, Hamede R, Hansen E, Kareva I, Maley CC, Marusyk A, McGranahan N, Metzger M, Nedelcu A, Noble R, Nunney L, Pienta K, Polyak K, Pujol P, Read A, Roche B, Sebens S, Solary E, Stanková K, Thomas F, Ewald HS. 2021. Identifying key questions in the ecology and evolution of cancer. *Evolutionary applications* 14.4 877-892.

Tollis M, Ferris E, Campbell M, Harris V, Rupp S, Harrison T, Kiso WK, Schmitt D, Aktipis A, Maley C, Boddy AM, Yandell M, Schiffman JD, Abegglen LM. 2021. Elephant genome reveals insights into differences in disease susceptibility between species. *Molecular Biology and Evolution*.

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Jason Budge

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Susan Cassels

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Maria Charles

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Raziel Davison

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Michael Gurven

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Peter Kuhn

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David Lawson

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Shelly Lundberg

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David López-Carr

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Quimby, Barbara, Stephen E. S. Crook, Karly Marie Miller, Jorge Ruiz, and David Lopez-Carr. 2020. Identifying, defining and exploring angling as urban subsistence: Pier fishing in Santa Barbara, California. *Marine Policy*.

Jones, Isabel J., et al. 2020. Improving rural health care reduces illegal logging and conserves carbon in a tropical forest. *Proceedings of the National Academy of Sciences* 117.45 (2020): 28515-28524.

Alan Murray

A.T. Murray, L. Carvalho, R.L. Church, C. Jones, D. Roberts, J. Xu, K. Zigner and D. Nash. 2021. Coastal vulnerability under extreme weather. *Applied Spatial Analysis and Policy* (DOI: 10.1007/s12061-020-09357-0).

A.T. Murray, R.L. Church, J. Xu, L. Carvalho, C. Jones and D. Roberts. 2021. Fire and flood vulnerability, and implications for evacuation. *Geospatial Technology and Smart Cities*, edited by Poonam Sharma, 299-314 (Springer) (DOI: 10.1007/978-3-030-71945-6).

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A.T. Murray. 2020. Planning for classroom physical distancing to minimize the threat of COVID-19 disease spread. *PLoS ONE* 15, e0243345 (DOI: 10.1371/journal.pone.0243345).

A.T. Murray. 2020. Sustainability and resilience through micro-scale decisions for change. *Development Studies in Regional Science: In Honor of Kingsley E Haynes*, edited by Z. Chen, W. Bowen and D. Whittington, 43-57 (Berlin: Springer) (DOI: 10.1007/978-981-15-1435-7_4).

K. Grace, A.T. Murray and R. Wei. 2020. Improving urban and peri-urban health outcomes through early detection and aid planning. *Geospatial Technologies for Urban Health*, edited by Y. Lu and E. Delmelle, 231-250 (Cham: Springer) (DOI: 10.1007/978-3-030-19573-1_12).

Heather Royer

Heather Royer (With Mariana Carrera, Mark Stehr, Justin Sydnor, and Dmitry Taubinsky), "Who Chooses Commitment? Evidence and Welfare Implications?" 2021 forthcoming, *Review of Economic Studies*.

Heather Royer (With Kelly Bedard and Maxine Lee), "Using Longitudinal Data to Explore the Gender Gap for Academic Economists" 2021 *American Economic Association Papers and Proceedings*.

Heather Royer (With Mireille Jacobson and Maria Kogelnik), "Holiday, Just One Day Out of Life: Birth Timing and Post-natal Outcomes" 2020, *Journal of Labor Economics*, forthcoming (NBER Working Paper #27346).

Heather Royer (With Mariana Carrera, Mark Stehr, and Justin Sydnor), "The Structure of Health Incentives: Evidence from a Field Experiment" *Management Science*, 2020, 66(5): 1783-2290. (Also NBER Working Paper #23188)

Cate Taylor

Thébaud, Sarah and Catherine J. Taylor. 2021. The Specter of Motherhood: Culture and the Production of Gendered Career Aspirations in Science and Engineering. *Gender & Society* 35(3): 395-421.

Gabrielle G. Gonzales and Catherine J. Taylor. 2021. "Teaching Sociology of Gender During Covid-19: Lessons from Contexts Magazine." *Contexts, Sociology for the Public, Blog*. April 15, 2021.

Taylor, Catherine J. 2020. "Is Generalized Anxiety Disorder a Disorder? In the Context of a Disaster, Not Really." *British Sociological Society, Everyday Society Blog*. April 14, 2020.

Beaman, Jean and Catherine J. Taylor. 2020. "#Courageisbeautiful But PPE Is Better: White Supremacy, Racial Capitalism, and Covid-19." *Contexts, Sociology for the Public, Blog*. June

Verta Taylor

Leila J. Rupp, Verta Taylor, and Shaeleya D. Miller. Forthcoming, 2021. Learning to be Queer: College Women's Sexual Fluidity. Introducing the New Sexuality Studies, 4th edition, edited by Nancy Fischer, Steven Seidman, and Laurel Westbrook. New York: Routledge.

Anna Chatillon and Verta Taylor. 2021. Gender and Social Movements. *Oxford Bibliographies in Sociology*, edited by Lynette Spillman. New York: Oxford University Press, pp.1-19.

Sarah Thébaud

Thébaud, Sarah and Catherine J. Taylor. 2021. The Specter of Motherhood: Culture and the Production of Gendered Career Aspirations in Science and Engineering. *Gender & Society* 35(3): 395-421.

Sigrid Van Den Abbeele

Cassels, S., & Van Den Abbeele, S. 2021. A call for epidemic modeling to examine historical and structural drivers of racial disparities in infectious disease. *Social Science & Medicine*, 276, 113833.

Rujun Yang

Yang, Rujun, and Maria Charles. 2021. Traditional Asians? Race, Ethnicity, and Gender Policy Attitudes in the United States. *RSF: The Russell Sage Foundation Journal of the Social Sciences* 7:130–53. Special issue on Asian Americans and the Immigrant Integration Agenda.

Appendix 2

Active Funding, 2020/2021

Elizabeth Ackert

NICHD R03 Award. Immigrant Destinations, Institutional Supports, and Health among Latino/a Children. (PI; co-Investigator is Dr. Robert Crosnoe) 2018-2021. \$100,000

NSF (SES- Sociology) Award. Kin Location, Neighborhood Disadvantage, and Health and Well-Being across the Life Course. (co-PI with Drs. Amy Spring and Nicole Kravitz-Wirtz). 2020-2023. \$450,000

UCSB Faculty Career Development Award. U.S. Latinx Destinations, Education, and Health. (PI). 2021-2022. \$5,000

UCSB Research Assistance Program. (PI). 2021-2022. \$8,000

UCSB Early Career Faculty Acceleration Program. (PI). 2021-2022. \$7,000

Amy Anderson

National Science Foundation Doctoral Dissertation Research Improvement Grant. 2019-2021. Co-PI. \$18,780

Sophia Arabadjis

Graduate Division: Graduate Student Academic Advancement: Scholarly Collaborations. GPS Talks: Geography Professionals and Students. New department speaker series hosted by Geography Outreach and Visibility Committee Arabadjis, S.D. (Founding Organizer / PI) Department of Geography UC-Santa Barbara. \$890.80.

Multidisciplinary Research for COVID-19 and its Impacts Grant. NCASE: Network Connectivity Among Students Enrolled. Team lead of graduate student collaborative team. (\$2,000 direct support) (PI)

Department of Geography UC-Santa Barbara. \$6,000.

Chancellor's Scholar (Central Fellowship)

Erika Arenas

UCSB Migration Initiative funding for the project "UndocuAging in Times of COVID-19. (Co PI. in conjunction with UCSB San Juanita Garcia Department of Chicana and Chicano Studies) \$10,000

Russell Sage Foundation to conduct a pilot study. "*Feasibility of Tracking And Re-Interviewing Immigrant Respondents Of A Population Based Longitudinal Survey After 10 Years*" with the objective of testing the feasibility of conducting a follow-up survey of panel respondents of the Mexican Family Life Survey (MxFLS) living in the United States, and inquire about their legal status. (PI). \$20,000.

Amy Boddy

National Science Foundation. Pregnancy-induced inflammation and obstacles to breastfeeding success in an industrialized environment. \$30,934, Co-PI with student Carmen Hové. 2019-2021.

NIH U54: ACE Pilot Funding. *Prevalence of reproductive cancers in nonhuman primates*. Boddy is Co-PI. \$7,350 total direct. 2021-2022.

NIH U54: ACE Pilot Funding. *Molecular evolution of immunity, reproduction and cancer genes in crocodylians*. Boddy is Co-PI. \$13,500 total direct. 2021-2022.

NIH U54: ACE Pilot Funding. *Oncogenic mutational signatures in cancer-like phenotypes in Acropora*. Boddy is Co-I. \$14,680 total direct. 2021-2022

NIH U54: ACE Pilot Funding. *Of pan-species histology and macroecology: chasing a solution to Peto's paradox across mammals*. Boddy is Co-I. \$12,000 total direct. 2021-2022.

John Templeton Foundation: *We All Are Multitudes: the Microchimerism, Human Health and Evolution Project*. \$4,643,000 total direct. Boddy is Co-PI. 2021-2023

National Cancer Institute. \$7,500,000 total direct. Co-Leader Project 1.2018-2023.

Susan Cassels

Exploring Social and Structural Determinants of HIV Risk Among Latinx Immigrant MSM
UCSB Migration Initiative. Cassels, S. and Cerezo, A. (Multiple PI). \$9,848

Activity spaces for HIV risk and prevention among diverse men who have sex with men in Los Angeles
NIH/NIDA R21 DA049643. 7/2020 – 6/2022. \$402,151. PI.

A data-driven approach to modeling the effects of non-pharmaceutical interventions in disease progression dynamics at varying geographic granularities UCSB VCR Seed Grant Collaborative Project. \$50,297. Co-PI

Maria Charles

UCSB Academic Senate. 2021-2022. Sex, Gender, and Islam: An Online Survey of Women and Men in Eight MENASA Societies. With Janet Afary and Roger Friedland. \$8,000.

US-Israel Binational Science Foundation. 2019-2022. Why Do More Arab than Jewish Girls Study STEM? Assessing Effects of Material Insecurity and Self-expressive Culture on Curricular Paths in Israel. With Yariv Feniger and Halleli Pinson. \$171,000.

Carsey-Wolf Center, UCSB. 2019-2020. Private Lives-Public Politics: Gender Relations and Gender Ideologies in Middle Eastern, North African and South Asian Countries. With Janet Afary and Roger Friedland. \$8,000.

UCSB Academic Senate Faculty Research Grant. 2021-22. "Sex, Gender, and Islam: An Online Survey of Women and Men in Eight MENASA Societies." With Janet Afary and Roger Friedland. \$8,000.

Olivier Deschenes

California Environment Protection Agency, Grant Number 19EPA017, “AB 74 Study: Demand and Supply of Fossil Fuels,” March 2020 – March 2022, \$1.5 million (co-PI with R. Deshmukh, D. Lea, and K. Meng).

National Institutes of Health / National Institute of Environmental Health Sciences, Grant number R21ES019375. Using Medication Purchases to Measure the Health Consequences of Air Pollution (with M. Greenstone and J. Shapiro). \$334,951.

Michael Gurven

National Institutes of Health/NIA Grant. Administrative supplement. 2020. (Joint PI: Gurven, Kaplan, Finch, Thomas) \$382,250.

National Science Foundation Doctoral Dissertation Grant. 2020. Drivers and consequences of intermarriage on social networks and risk-buffering. PI: Gurven, co-PI: Sarah Alami, \$25,200.

National Science Foundation Doctoral Dissertation Grant. 2020. The skeletal biology of porous cranial lesions. PI: Gurven, co-PI: Amy Anderson, \$31,044.

National Institutes of Health/NIA Grant. R01. 2018-2022. Brain atrophy, cognitive impairment and Alzheimer’s in a low CVD-risk population. Joint PI, \$2,902,118.

David Lopez-Carr

Global Environmental Facility (GEF) Grant. Strengthening Land Degradation Neutrality data and decision-making through free and open access platforms. Executing Agency: Conservation International. Project PI: Mariano Gonzalez-Roglich. D. López-Carr, PI for component 2: Understanding the socio-environmental interactions between drought, land degradation, and poverty. \$2 million USD (\$397,700 in-kind). Component 2 budget: \$406,314. 9/5/2019 - 5/31/2022

UCSB Senate Faculty Research Grant. Women’s health, livelihoods, and empowerment lead to forest conservation? A before and after intervention design of households and communities in the Maya Biosphere, Guatemala. PI David Lopez-Carr. 2021-2022. \$8,365

Convocatoria Extraordinaria de Colaboración Binacional frente al COVID-19, UNAM - Universidad de California (UC). The compounded impact of COVID-19 on agricultural workers in the presence of heat waves. Amando Sanchez and David Lopez-Carr, PIs. September 1, 2020 through March 1, 2021. \$4,516

Binational Collaborative Projects Addressing COVID-19. The National Autonomous University of Mexico (UNAM) through the Scientific Research Coordination (CIC), the Liaison and Technology Transfer Coordination (CVTT) and the University of California (UC) through Alianza UCMX in collaboration with the Secretariat of Foreign Affairs of Mexico. COVID-19 and Migrant Workers: Enhancing Health Resilience and Productivity. David Lopez-Carr and Armando Sanchez, PIs. September 1, 2020 through March 1, 2021. \$5,000

Peter Kuhn

Institute for Social, Behavioral and Economic Research (ISBER), UC Santa Barbara. 2021. "Why do Workplace Teams Bunch at Kink Points? Evidence from the Laboratory" \$2850.

UCSB Academic Senate. 2021. "Why do Taxpayers Bunch at Kink Points? Evidence from Accelerating Commissions". \$2850.

David Lawson

National Science Foundation Senior Research Award (PI). 2019-2020. Assessing the Costs and Benefits of Cultural Practices. \$199,074.

Alan Murray

USDA Forest Service / Pacific Southwest Forest and Range Experiment Station. 2020-2021. The development of spatial optimization tools to support efforts to transition to fire resilient forest landscapes. Church, R. and A. Murray. \$94,901.

National Institutes of Health. 2020-2022. Activity Spaces for HIV Risk and Prevention Among Diverse Men Who Have Sex with Men in Los Angeles. Cassels, S., A. Murray P. Gorbach and A. Vaughan. \$401,769.

California. National Science Foundation. 2017-2020. PREEVENTS Track 2: Understanding Extreme Fire Weather Hazards and Improving Resilience in Coastal Santa Barbara. Carvalho, L., A. Murray, C. Jones, D. Roberts and R. Church. \$1,508,987.

Heather Royer

UCSB Faculty Senate Grant for Effects of Drinking Water Quality on Infant Health. \$10,000.

Molly Schwarz

National Science Foundation. 2021. Social, Behavioral, and Economic Sciences (SES) Doctoral Dissertation Research Improvement Grant. Co-PI. \$25,000.

Appendix 3

Honors and Recognition, 2020/21

Maria Charles

Elected Fellow, American Academy for Advancement of Science, AAAS (2019-)

Elected Member, Sociological Research Association (2010-)

Associate Editor, *Science Advances* (open access extension of *Science Magazine*) (2021-present)

Editorial Board Member, *Social Science Research* (2020-present)

Elected Member. Electorate Nominating Committee, Section on Social, Economic & Political Sciences, American Academy for the Advancement of Science, AAAS (2020-2023).

Editorial Board Member, *Socius* (2017-2020)

Editorial Board Member. *Social Sciences*, Gender Studies Area (2018-2020)

Executive Advisory Board Member, UCSD Center for Research on Gender in the Professions (2010-).

Fellow, Center for the Study of Poverty and Inequality (Stanford University). (2010- present).

Steven Gaulin

Co-Editor-in-Chief, *Evolution and Human Behavior* (Elsevier). (2002 - present).

Michael Gurven

Member, National Science Foundation, Cultural Anthropology, Doctoral Dissertation Grant Review Committee. (2009-present).

Health consultant for Tsimane Government (*Asesor de Salud, Gran Consejo Tsimane*) (2009-present).

Unit Chair, Integrative Anthropological Sciences (IAS), UCSB. (2008-present.)

Associate Editor, *Evolution and Human Behavior* (Elsevier). (2007-present).

Affiliate, Latin American and Iberian Studies Department (2003-present).

Director, Tsimane Health and Life History Project. (2002-present).

Peter Kuhn

Editorial Board Member, *AEJ: Applied Economics*. (2013- present).

Associate Editor, *IZA World of Labor*. (2013- present).

Associate Editor, *IZA Journal of Labor Economics*. (2012- present).

Associate Editor, *Industrial and Labor Relations Review*. (2011- present)

Advisory Board Member, Canadian Labour Market and Skills Research Network (CLSRN). (2011- present)

Visiting Senior Fellow, Institute for the Study of Labor (IZA) Bonn, Germany. (2010- present).

Advisory Board Member, Experimental and Behavioral Economics Lab (EBEL), UCSB. (2007- present).

Fellow, Center for the Study of Poverty and Inequality (Stanford University). (2006- present).

Research Associate, National Bureau of Economic Research (Cambridge, MA). (2005- present).

Advisory Board Member, UCSB/Penn State GIS Population Science Program. (2004- present).

Associate Editor, *Labour Economics*. (2004- present).

Research Fellow, CESifo Research Network, Munich. (2000- present).

Research Fellow, Institute for the Study of Labor (IZA) Bonn. (1999 - present).

David Lopez-Carr

Advisory Board Member, World Geography Editorial Management, ABC-CLIO Academic Publishers. (2011-present).

Core Faculty, Spatial Science minor, UCSB. (2010- present).

Affiliate Faculty, Global and International Studies, UCSB. (2010- present).

Research Associate, Center for Comparative Immigration Studies (CCIS) at University of California, San Diego. (2010- present).

Research Associate, UC Center for U.S.-Mexican Studies (USMEX). (2009- present).

Adjunct Faculty, Department of Geography, San Diego State University. (2008- present).

Steering Committee Member. International Geographical Union Land Use/Cover Change (LUCC) Commission. (2008-present).

Associate Editor. *Population and Environment*. Springer. (2008-present).

Editorial Board Member. *Journal of International and Global Studies*. Lindenwood University Press. (2008-present).

Affiliate Faculty, Interdisciplinary Program in Marine Sciences, UCSB. (2007- present).

Associate Investigator, Santa Barbara Channel (SBC) and Moorea Coral Reef (MCR) Long Term Ecological Research Network (LTER). (2007-present).

Affiliate Faculty, Latin American and Iberian Studies, UCSB. (2006- present).

Shelly Lundberg

Doctorate Honoris Causa, University of Bergen, (2012 - present).

Associate Editor, *IZA World of Labor*, (2012- present).

Associate Editor, *Journal of Demographic Economics*. (2013-present).

Associate Director, Broom Center for Demography, (2011-present).

Fellow, Society of Labor Economists, (2008-present).

Research Fellow, IZA, (2004-present).

Board of Editors, *Review of Economics of the Household*, (2001- present).

Brenda Major

Elected Fellow, the American Academy of Arts and Sciences

Elected Fellow, American Association for the Advancement of Science

Distinguished Lifetime Achievement Award, International Association of Self and Identity, 2020

Editorial Board, *Psychological Review* (2010- present).

Editorial Board, *Social Justice Research*, (2003- present).

Aashish Mehta

Consultant – Education and Structural Transformation – Asian Development Bank (2012-Present)

Senior Collaborator – Center for Nanotechnology and Society, UCSB (2010-Present)

Victor Rios

MacArthur Chair (with Jeffrey Stewart) .“A New Eden in Southern California: Promoting Black and Brown Futures in Resilient Communities.” 2021-2026.

Member, American Sociological Association, Committee on Racial and Ethnic Minorities (2010 - present).

Advisory Board Chair, Chicano Studies Institute UCSB. (2010 - present).

Advisory Board Member, Center for Black Studies UCSB. (2009 - present).

Editorial Board Member, *Aztlan: A Journal of Chicano Studies*. (2008 - present).

Committee Member, *Pacific Sociological Association*, Committee on Race and Ethnic Minorities. (2007 - present).

Racial Democracy, Crime and Justice Network Member, Ohio State University/National Science Foundation. (2007 - present).

Present Advisory Board Member, Kirwin Institute for the Study of Race and Ethnicity, Ohio State University, African American Male Project. (2006 - present).

Affiliated Faculty, Center for Culture, Immigration and Youth Violence Prevention University of California, Berkeley, Institute for the Study of Societal Issues. (2005 - present).

Heather Royer

Associate Editor, *Journal of Economic Behavior & Organization* (2011 - present).

Bing Health Scholar, RAND Corporation (2011 - present).

Faculty Research Fellow, National Bureau of Economic Research (2009 - present).

Cecilia Speroni

Project director for Mathematica Policy Research.

<https://www.mathematica-mpr.com/our-publications-and-findings/projects/research-experiences-for-undergraduates-reu>

Stuart Sweeney

Editorial Board member, *Spatial Demography* (2011- present)

Verta Taylor

Editorial Board, *Social Psychology Quarterly* (2014-present)

Editorial Board, *Social Currents* (2012- present)

Editorial Board, *Sociological Forum* (2007-present)

Editorial Board, *Mobilization: An International Journal about Social Movements, Protest, and Collective Behavior* (1995-present)

Editorial Board, *Social Movement Studies* (2002-present)

Associate Editor, Series on Social Movements, Protest, and Societies in Contention, University of Minnesota Press (1992-present).

Member, Advisory Board, Consortium on Social Movement Studies, Dept. of Political and Social Sciences, European University, Florence, Italy.

John Weeks

Director, International Population Center, San Diego State University (2011 - present)

Member, University Student Learning Outcomes Assessment Committee, (2011-present).

Member, University Research Council, (2010-present).

Senior Fellow, California Council on Science and Technology (2008 - present)

Editorial Board, *GeoJournal* (2007 - present).

Clinical Professor of Global Public Health, School of Medicine, University of California, San Diego (1998 - present).

Editorial Board, *Journal of Immigrant Health* (1996 - present).

Appendix 4

Media Attention and Public Policy Contributions, 2020/2021

Sophia Arabadjis

Feature Story "Biometrics could give more vivid picture of woman's workload." Allison Floyd. College of Agricultural & Environmental Sciences University of Georgia. August 04, 2020. <https://ftfpeanutlab.caes.uga.edu/news-and-events/news-stories/story.html?storyid=8433&story=Woman%27s-work-in-peanut4>.

Ronnie Bailey-Steinitz

A DISTANT REFUGE: A UC Santa Barbara doctoral student studies primates at a small wildlife reserve in western Uganda. Jim Logan, *The Current*. <https://www.news.ucsb.edu/2020/019786/distant-refuge>
ANSWERS IN EXCREMENT: Fecal Analysis Yields Insight About Wild Primates. Chia-Yi Hou, Mongabay. <https://news.mongabay.com/2020/01/answers-in-excrement-fecal-analysis-yields-insight-about-wild->

Amy Boddy

2021, Interviewed by Stephanie DeMarco, Drug Discovery News, [You have your mother's eyes – and cells](#)

2021, Interviewed by Sean Crommelin, The Daily Nexus, [Cancer and Chemo from a Wider Lens](#)

2020, Interviewed by Jacqueline Wen, The Daily Nexus, [UCSB Researcher Investigates Strategies for Reducing Metastatic Potential of Cancer Cell Clusters](#)

Maria Charles

Maria Charles: Featured in ["Why do some Developing Countries have more Women in Science than Australia — and How Can We Lift our Game?"](#) Australian Broadcasting Corporation, ABC Science. May 18, 2021.

Maria Charles: Featured in ["A Controversial Study Claimed to Explain Why Women Don't Go into Science and Tech. It Just Got a 1,113-Word Correction."](#) *BuzzFeedNews*: Feb. 13, 2020.

Maria Charles: Blog post, extended interview: ["Gender Stereotypes, Gendered Self-Expression, and Gender Segregation in Fields of Study: A Q&A with Professor Maria Charles."](#) Harvard GenderSci Lab, February 2020.

Michael Gurven**Media coverage of Science Advances paper on body temperature declines:**

Conversation: <https://theconversation.com/peoples-bodies-now-run-cooler-than-normal-even-in-the-bolivian-amazon-148901>

NYTimes: <https://www.nytimes.com/2021/01/11/well/live/fever-benefits.html>

Smithsonian Mag: <https://www.smithsonianmag.com/smart-news/another-study-finds-average-human-body-temperature-dropping-180976335/>

Gizmodo: <https://gizmodo.com/an-indigenous-group-in-the-amazon-has-experienced-a-dro-1845508162>

Tribune: <https://www.tribuneindia.com/news/health/populations-normal-body-temperature-may-decline-with-improved-hygiene-say-scientists-162872>

Devdiscourse: <https://www.devdiscourse.com/article/science-environment/1289455-heavy-rains-lash-chennai-many-roads-inundated>

India Express: <https://indianexpress.com/article/explained/explained-98-6f-vs-new-normal-why-are-our-body-temperatures-declining-over-time-6910259/>

CBC Radio program:

<https://bigthink.com/surprising-science/average-human-body-temperature-mysteriously-declined-finds-study?rebellitem=4#rebellitem4>

National Interest: <https://nationalinterest.org/blog/reboot/why-are-peoples-bodies-running-cooler-normal-171663>

Science News: <https://www.sciencenews.org/article/bolivia-indigenous-tsimane-people-average-body-temperature>

Odded: <https://www.oddee.com/cold-so-cold-universal-drop-in-human-body-temperature-stumps-scientists-55525/>

Media coverage of Science Advances paper on Turkana health transitions:

Science Times: <https://www.sciencetimes.com/articles/27834/20201022/health-issues-such-obesity-due-mismatched-theory-evolution-diets.htm>

Consumer Affairs: <https://www.consumeraffairs.com/news/obesity-and-disease-could-be-linked-to-evolutionary-diet-change-study-finds-102320.html>

Podcast/Programs:

NOTeD, “Where in the world are the lowest rates of coronary artery disease?”

<https://www.truehealthinitiative.org/news/lowest-rates-of-coronary-artery-disease/>

UCSB Press Releases:

Health Gap <https://www.news.ucsb.edu/2021/020315/health-gap>
 A Drop in Temperature <https://www.news.ucsb.edu/2020/020081/drop-temperature>
 How We Age <https://www.news.ucsb.edu/2020/020033/aging-process>

David Lawson

What Men Want: <https://www.news.ucsb.edu/2021/020235/what-men-want>
 Parachute Failure: <https://www.news.ucsb.edu/2021/020207/parachute-failure>

Child Marriage Misconceptions <https://www.news.ucsb.edu/2020/020047/child-marriage-misconceptions>

An Age Old Question <https://www.news.ucsb.edu/2020/020042/age-old-question>

Sarah Thébaud

Thébaud, Sarah and David S. Pedulla. 2021. Unpacking Millennial Men's responses to Supportive Work-Family Policies. *Gender & Society* Blog.

Cathy Weinberger

King, Mary and Olivia Katbi Smith, 2020. "On Universal Preschool, Multnomah County, Oregon, Moves to the Head of the Class," *The American Prospect*, Nov. 10 2020.
<https://prospect.org/education/multnomah-county-oregon-creates-universal-preschool-program/>

North, Anna, 2020. What this Oregon County's 'Preschool for All' Victory Means for Child Care in America," Nov 4, 2020.
<https://www.vox.com/2020/11/4/21536615/oregon-measure-26-214-preschool-results-portland-multnomah>

Smart, Ashley, 2020. "After Years of Gains, Black STEM Representation Is Falling. Why?" *Undark*, Nov. 11, 2020.
<https://undark.org/2020/09/11/after-years-of-gains-black-stem-representation-is-falling-why/>

Solis, Marie, "Biden's universal pre-k plan must include higher wages for preschool teachers, say experts," *Fortune*, March 26, 2021.
<https://fortune.com/2021/03/26/universal-pre-k-policies-higher-wages-for-preschool-teachers/>

Appendix 5

Seminar Schedule, 2020/2021

During the 2020/21 academic year, Broom Center Seminars were held remotely, due to COVID-19 restrictions.

FALL

Monday, October 5:

Andrew Foster (Brown, Economics)

"Start What You Finish! *Ex Ante* Risk and Schooling Investments in the Presence of Dynamic Complementarities."

Host: Kelsey Jack

Monday, October 19:

Alexandra Killewald (Harvard University, Sociology)

"Have Changing Family Demographics Narrowed the Gender Wage Gap?"

Host: Maria Charles

Monday, November 2:

Jennifer Beam Dowd (University of Oxford, Demography and Population Health)

"Perspectives from a Pandemic: Demographic Insights and Battling the "Infodemic" Host: Susie Cassels

Monday, November 16:

Khandis Blake (University of New South Wales) "Sex, Money and Gender Roles: Interdisciplinary Approaches to Resolving Gendered Conflict."

Host: David Lawson

Monday, December 7:

Michelle Budig (University of Massachusetts Amherst, Sociology) "Mothers' Employment and Labor Market Outcomes among Ethno-Religious Groups in Israel."

Host: Sarah Thébaud

WINTER

Monday, January 11:

Rebecca Sear (London School of Hygiene and Tropical Medicine)

"The Myth of the 'Traditional' Nuclear Family: Evidence, Causes and Consequences." Host:

Mike Gurven

Monday, January 25:

Gabriella Conti (University College London, Economics)

"Health effects and role genetics in home visiting programmes."

Host: Heather Royer

Monday, February 8:

Liana Sayer (University of Maryland, Sociology)

"Country and Weekday/Weekend Variation in Associations of Employment with Mothers' Unpaid Work." Host: Maria Charles

Monday, February 22:

Rachel Carmody (Harvard, Human Evolutionary Biology)

"Ecological sensitivity of the human gut microbiome."

Host: Mike Gurven

Monday, March 8:

Goleen Samari (Columbia, Population and Family Health)

"Anti-Muslim Racism and Structural Impacts on Health."

Host: Liz Ackert

SPRING

Monday, March 29:

John Park (UCSB, Asian American Studies)

"Korean Migrations to the United States After 1965: From Settlement to Circulation."

Monday, April 26:

Andrew Tatem (University of Southampton, Geography)

"Geospatial data integration for mapping population distributions, demographics and dynamics."

Host: Susie Cassels

Monday, May 10:

Andrés Villarreal (UCLA, Sociology)

"Immigrants' Economic Assimilation: Evidence from Longitudinal Earnings Records"

Host: Maria Charles

Monday, May 24:

Peter Q. Blair (Harvard Graduate School of Education)

"Skills, Degrees and Labor Market Inequality."

Host: Shelly Lundberg

Appendix 6

2020/21 Workshops

September 18, 2020

Broom Center Virtual Symposium on COVID-19

This symposium showcased in-progress research by Broom affiliates related to the COVID-19 pandemic. Short talks were followed by open discussion.

Disparate Impacts of COVID-19

- Melissa Smith, Trevor Auldrige Reveles, and Alex Maldonado
- Liz Ackert
- Joanne Nowak and Warsan Ali
- Open Discussion

Modeling COVID-19 Spread

- Sophia Arabadjis, Susie Cassels, Sean Reid, and Chelsie McWhorter
- Sarah Alami and Tom Kraft
- Open Discussion
- Break

Interventions Related to COVID-19 & the Socioeconomic Impacts of COVID-19

- Emily Fox
- Heather Royer
- Gary Charness
- Emiko Saldivar Tanaka and Erika Arenas

Open Discussion

Social Hour – Chat with Presenters who will be positioned at tables on Yotribe

October 9, 2020

Race and Inequality: A Collaborative UCPop Event

Inaugural event of the Population Centers of the University of California ("UCPop") on "Race and Inequality." Keynote talk by Tukufu Zuberi (Lasry Family Professor of Race Relations, and Professor of Sociology and Africana Studies, University of Pennsylvania): "Demography of Race: The Propaganda of Demography," followed by breakout sessions featuring research presentations by graduate-student associates of the four UC population centers (Santa Barbara, Berkeley, Los Angeles, Irvine).

Breakout rooms featuring graduate-student research

Room 1, hosted by UC Berkeley (Joshua Goldstein). Respondents: Susan Cassels (UCSB) and Rucker Johnson (UCB)

"The Role of Individual and Subjective Neighborhood Cultural Identity and Ethnic Attitudes in Maternal Mental Health in a Pregnant Latina Population" by Kristine Chua, Delaney Knorr and Molly Fox (UCLA Anthropology, CCPR).

"Restorative for all? School Discipline and Racial Disproportionality Under Restorative Justice" by Miles Davison (UCI Sociology and CPIP).

Room 2, hosted by UC Irvine (Tim Bruckner and David Neumark). Respondents: Mara Loveman (UC Berkeley) and George Farkas (UCI)

"Skin Color, Race, and Nation in Latin America" by Marisa Meno (UCSB Sociology and Broom Center).

"College-Going in the Era of High Expectations: Racial/Ethnic Disparities in College Enrollment, 2006-2015" by Amber Villalobos (UCLA Sociology, CCPR).

Room 3, hosted by UC Los Angeles (Jennie Brand). Respondents: Bryan Sykes (UCI) and Matthew Freedman (UCI)

"The Vanishing Margins: Intersectionality, Small Groups, and Statistical Modeling" by Robert Pickett (UCB Sociology/Demography).

"The Role of Rail Transit in Alleviating Spatial Mismatch" by Alec McQuilkin (UCSB Economics and Broom Center).

Room 4, hosted by UC Santa Barbara (Maria Charles). Respondents: Peter Kuhn (UCSB) and Paavo Monkkonen (UCLA)

"Economic Insecurity and Racially Motivated Crimes" by Hina Usman (UCI Economics and CPIP).

"Rising Housing Costs and the Racial Wealth Gap" by Joe LaBriola (UCB Sociology/Demography).

May 17, 2021

Broom Center Alumni Career Panel

This Career Panel featured Graduate Alumni of the Broom Center, who talked about their professional experiences and answered questions about the job search process, academic and non-academic jobs and further training for PhDs in demographic fields, and professional rewards/pitfalls in the early career process. The participants and their positions past and present were:

Jacqueline Banks, Geography: Postdoctoral Fellow, Minnesota Population Center, University of Minnesota

<https://pop.umn.edu/content/jacqueline-banks>

Heather Hurwitz, Sociology: Faculty Researcher, Cleveland Clinic Cancer Institute, previously Lecturer, Department of Sociology, Case Western Reserve University

<https://heathermhphd.weebly.com/>

Kevin Mwenda, Geography: Assistant Professor (Research) of Population Studies, Associate Director of the Spatial Structures in the Social Sciences, Brown University

<https://www.brown.edu/academics/population-studies/people/person/kevin-mwenda>

Anne Pisor, Anthropology: Assistant Professor, Department of Anthropology, Washington State University; formerly Postdoctoral Scholar, Max Planck Institute for Evolutionary Anthropology

www.pisor-lab.com

Allison Witman, Economics: Assistant Professor of Economics, Cameron School of Business, University of North Carolina Wilmington, previously Research Economist, Public Health Program, RTI International

<https://sites.google.com/site/allisonwitman/home>

Appendix 7

Graduate Student Research and Training (GSRT) Grants Awarded, 2020/21

Awarded Spring 2020

Charlotte Hoppen

Sociology
2020 ICPSR
Awarded \$1800

Alex Maldonado

Sociology
2020 ICPSR
Awarded \$1800

Molly Schartz

Economics
Data purchase for research
Awarded \$2000

Awarded Fall 2020

Carmen Hove

Anthropology
Research, Variation in Female Immune Function
Awarded \$1942

Ronnie Steinitz

Anthropology
Research, Food Fights: Competition among Fruit-eating Primates in Kibale National Park, Uganda
Awarded \$2,000

Amanda Pihiero de Oliveira

Global Studies
Research, Multinational Migration of Haitian Migrants.
Awarded \$2,000

Rujun Yang

Sociology
Research, Gender, Geography, and Gender Ideology in China.
Awarded \$2000

PAA 2021 Awards for Accepted Papers

Jason Budge

Sociology

Registration cost: \$115

Sean Reid

Geography

Registration cost: \$115

Rujun Yang

Sociology

Registration cost: \$115

Note: All recipients are Broom Center Graduate Associates, enrolled as graduate students at UCSB

Appendix 8

Methods Mini-Courses and Graduate Student Presentations, 2020/21

2020/2021 Mini-Courses

Ethnographic Methods

This workshop provided a basic introduction to the use of ethnographic methods for research

Instructor: Amanda Pinheiro, Global Studies

Wednesday, February 26, 2020

1053 North Hall (Broom Computer Lab)

Introduction to R

This workshop provided a basic introduction to using the R program for statistical analysis.

Instructor: Sarah Alami, Anthropology

Monday, April 6, 2020

Multilevel Modeling

This workshop introduced participants to multilevel modeling (aka hierarchical linear modeling/mixed effects modeling). It included both a conceptual overview and hands on application in Stata/R.

Instructor: Jason Budge, Sociology.

Monday April 20, 2020

Introduction to R

This workshop provided a basic introduction to using the R program for statistical analysis.

Instructor: Sarah Alami, Anthropology

Thursday, October 15, 2020

Intermediate Stata

This workshop will include learning how to merge databases, plot graphs, and create loops (repeated commands)

Instructor: Jaime Ramirez, Economics

Tuesday, October 27, 2020

Intro to Python

This workshop provided a basic introduction to the Python program

Instructor: Sean Reid, Geography

Friday, February 19, 2021

Appendix 9

Interdisciplinary PhD Emphasis in Demography

The departments of Anthropology, Economics, Geography, Sociology, and Global Studies are now offering, in cooperation with the *Broom Center, a PhD Emphasis in Demography*. The goal of this program is to give doctoral students in core disciplines an opportunity to gain a broader interdisciplinary understanding of concepts and methods in population-related research, beyond the resources available in their home departments. Participation in the Demography Emphasis is independent of the doctoral curriculum and degree requirements established by a student's home department. Upon completion of the requirements, the student will receive a Demography Emphasis certificate when their disciplinary PhD is awarded.

Rationale

Demography is an interdisciplinary field in the social sciences that focuses on the study of human populations. Increasingly broad in scope, demography now incorporates research on population health, family structure and gender relations, and human-environment and hormone-behavior interactions, as well as the traditional topics of fertility, mortality, and migration. Methodologies developed in one field are crossing disciplinary boundaries as well, with spatial techniques, the collection and analysis of biomarkers, econometric methods, field and laboratory experiments, and qualitative methods such as structured interviewing becoming broadly used across the demographic sciences. Expertise in demography is highly valued in academic and policy environments as a rigorously empirical and multidisciplinary science. A PhD Emphasis in Demography will provide graduate students with both core training in demography and opportunities to gain access to methodological expertise in other departments and to interact with faculty in fields other than their own.

Requirements (in addition to departmental PhD requirements):

1. Core course in demography. Each student will be required to take GEOG 254: Population Geography, or ANTH 245: Anthropological Demography and Life History, usually during their first year in the program. This course will focus on the analysis of human population dynamics through fertility, mortality, and migration. The core course will usually be offered during winter quarter.
2. Population studies courses. Each student must complete three demography-related courses (12 unites), at least one of which must be outside the student's own discipline. A list of currently-eligible courses in four departments appears below.
3. Regular attendance at the Broom Center Seminar. Regular attendance at the biweekly Broom Center seminar for two years (defined as attending at least 80% of all regular seminars) will be required for students enrolled in the Demography Emphasis.
4. Demography seminar/reading group. All students in the Emphasis must attend a one-quarter reading group (ECON 290DM), usually in spring of their first year in the program, that focuses on reading and discussing key research in demography across the participating disciplines.
5. Broom graduate student seminar presentation. Each student will be expected to present their research in the Broom Center's "lab lunch" informal seminar for graduate students.
6. Dissertation topic. Completed dissertations that qualify for the Emphasis must consist of (or include, in the case of multi-project dissertations) research with a strong focus in demography, and the committee must include least one Emphasis core faculty member.

How to Apply to the Demography Emphasis Program

Students enrolled in the PhD programs in the departments of Anthropology, Economics, Geography, Sociology, and Global Studies are eligible to apply for enrollment in the Demography Emphasis. Inquiries should be emailed to the Emphasis director, Shelly Lundberg (slundberg@ucsb.edu) your advisor and an outline of your proposed plan of study and dissertation research early in your studies. Before filing your dissertation, you must also file a [Change of Degree Status Petition](#) with the Graduate Division for the emphasis to appear on your official record.

Eligible population courses:

- Anthropology: ANTH 209 Applying Evolutionary Anthropology (Lawson)
 ANTH 245. Anthropological Demography and Life History (Gurven)
 ANTH 253. Human Biology Laboratory Methods
 ANTH 256. Modeling Social Behavior (Gurven)
 ANTH 257. Human Behavioral Ecology Theory and Method (Gurven)
 ANTH 276. Culture Contact and Interaction (Smith)
- Geography: GEOG 241A-C. Population Geography (Lopez-Carr, Sweeney)
 GEOG 227. Geo-Social Determinants of Health and Health Disparities (Cassels)
 GEOG 288LA. Urban Geography (Ackert)
- Sociology: SOC 226. International Immigration
 SOC 234. Social Inequalities (Charles)
 SOC 240. Sociology of Health (Taylor)
 SOC 245A. Seminar on Gender (Thébaud; Taylor)
 SOC 272. Race, Crime, and Punishment (Rios)
- Economics: Labor Economics sequence: ECON 250E-J
 ECON 250D Population Economics (Lundberg)
 [Note: This course has no economics prerequisites]

Appendix 10

***NextGenPop*: Recruiting the Next Generation of Scholars into Population Research**

Program Description, September 2021

Background and Motivation. Guided by the Eunice Kennedy Shriver National Institute on Child Health and Human Development (NICHD) mission “to ensure the health, productivity, independence, and well-being of all people,” demographic research provides foundational information about the health and well-being of individuals, families and groups, and the changing composition of the broader populations that they comprise. This research sheds light on the large-scale patterns and processes that shape our world and the individuals living in it. Students trained in population science are well-equipped to pursue careers across academic, government, and applied research settings, where they can work toward enhancing human health, development and well-being.

While the field of population research has continued to grow in numbers, there remains a **striking lack of racial and ethnic diversity among scholars of population**. For example, only 12% of earned doctorates within the social sciences (where demographers typically get their training) were awarded to Black and Hispanic candidates in 2019. Within the Population Association of America (PAA)—the leading professional organization for demographic research—only 15% of current members identify as Black or Hispanic, which is about half their combined proportion (32%) in the general population. These numbers show that we are not sufficiently recruiting, training, and retaining scholars from a range of backgrounds. This is important both in terms of providing opportunities for groups of individuals that have been historically disadvantaged and also for generating a body of demographic knowledge that fully reflects the diversity of human populations today.

Population research offers a range of professional career opportunities and yields important research findings that influence policy and practice to enhance human wellbeing. We need to do more to **build a pipeline into demography for undergraduate students** who have been historically underrepresented in this field. The undergraduate years are a critical period for shaping the course of future academic and professional trajectories and present a key opportunity for drawing promising researchers from diverse backgrounds into population science. Undergraduate demography training is relatively uncommon, however, particularly outside of elite research universities.

NextGenPop. To expand demographic training for undergraduates, we are developing a brief but intensive, collaborative summer program that uses pressing contemporary issues as a lens for studying population composition and change, for example, on race and income inequality, health disparities, immigration, and family change. Funded by an NICHD R25 grant (#HD105602), this new initiative aims to increase the diversity of the population field and nurture the next generation of population scientists. *NextGenPop* will be coordinated by a new consortium of 27 population research centers from universities across the U.S. and will be closely linked with and administratively supported by the Population Association of America (PAA). Population centers in the consortium include: Albany, Bowling Green, Brown, Chicago, Colorado, Columbia, Cornell, CUNY, Duke, Guttmacher, Harvard, Johns Hopkins, Michigan, Minnesota, Ohio State, Penn, Penn State, Princeton, UC-Irvine, UCLA, UCSB, UCSD, UNC, Utah State, Texas, Washington, and Wisconsin.

Over the five years of the program (summers 2022-2026), *NextGenPop* will be successively hosted (in chronological order) by: Wisconsin, Cornell, Duke, UC-Irvine, and Minnesota. The goal is that by hosting it across institutions, we can make it regionally accessible to students in various geographic locations.

Program Structure. The program will include two weeks of in-person programming on campus over the summer. The summer residential experience will be supplemented by subsequent virtual components focused on research and professional development, as well as opportunities for mentorship and networking at the PAA annual meetings. Across the five universities, common core content on population perspectives, research methods, and professional development will be covered each summer, along with material that reflects cutting-edge research themes and expertise at each host institution. A hands-on research component will be integral to the program, including faculty-student research collaborations and small-group tutorials. In addition to faculty, the program will draw in and support graduate students and postdocs in mentoring roles with program participants, providing critical training opportunities to graduate and postdoctoral affiliates and extending the reach of the program. *Recruitment and Institutional Support.* Host institutions will work with regional partners, including HBCUs and other schools and colleges closely connected to the target population of underrepresented minorities and first-generation college students. Regional partners will also contribute faculty and graduate students to help with the curriculum and guide hands-on research projects. PAA will play a coordinating role for the program, including developing a website to provide program information, processing applications, arranging travel, and connecting with potential partners. Critically, PAA will work with us to bring the *NextGenPop* participants to the PAA annual meetings in the years following the summer program, providing ongoing engagement with other *NextGenPop* fellows and scholars from the broader field.

For population science to fully reflect the diversity of human populations today, we need to increase racial and ethnic diversity among scholars in the field. **The *NextGenPop* program will address this critical challenge with a collaborative summer program for undergraduates** across multiple U.S. universities. It promises to have significant and sustained impact by building a more diverse pipeline into the population field and nurturing the next generation of population scientists.

For more information, please feel free to contact the *NextGenPop* PIs/site leaders:

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