

broom center for demography

University of California, Santa Barbara



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

Annual Report 2022

Broom Center for Demography
University of California, Santa Barbara
2022 Annual Report

The Leonard and Gretchan Broom Center for Demography is an interdisciplinary research center at the University of California, Santa Barbara. 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, graduate student commons, and a computer lab. This report describes the Center's activities during its 11th year of operation, from July 1, 2021 through June 30, 2022.

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 most recently 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 early 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 Broom Center celebrated its 10th anniversary this past year, and hosted a gathering on the UCSB Lagoon Lawn with food, friends, and live music on May 2, 2021. Especially noteworthy was that the founding Dean of the Broom Center, Dr. Melvin L. Oliver, returned to campus to deliver remarks. Dr. Oliver is currently the President of Pitzer College, and a distinguished scholar of racial and urban inequality. He reflected on the Broom Center's past, present, and promise, as well as his interactions with Leonard and Gretchan Broom over the years.

Professor Susan Cassels (Geography) currently directs the Broom Center. This leadership transition happened on July 1, 2022 when Professor Maria Charles (Sociology) stepped down from the role of director after six productive years (2016 – 2022). Shelly Lundberg, the Leonard Broom Professor of Demography, continues as the Center's Associate Director, and Trea DePrima is the Program Administrator. Sociology graduate student Sophia Arabadjis served as Manager of the Social Demography Lab during the 2021-22 academic year. The 2021-22 Advisory Board consisted of Maria

Charles (Sociology), Michael Gurven (Anthropology), Susan Cassels (Geography), Shelly Lundberg (Economics), Heather Royer (Economics), and Erika Arenas (Sociology), plus two ex officio members: the 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 34 faculty and postdoctoral *Research Associates* and 51 *Graduate Associates* spanning eight disciplines (Anthropology; Ecology, Evolution & Marine Biology; Economics; Geography; Linguistics; Marine Science; Psychology; and Sociology). During the last academic year, we were fortunate to welcome Nicole Thompson Gonzáles (Assistant Professor in Anthropology) as a new UCSB faculty members and Broom Center Research Associates.

Broom Research and Graduate Associates spent an active research year in 2021/22, together producing more than 76 peer-reviewed journal articles, book chapters, books, and other items.¹ Active research grants totaled more than \$21 million, including from the National Institutes of Health, National Institutes on Aging, National Institute of Environmental Health Sciences, National Science Foundation, National Aeronautics and Space Administration, Russell Sage Foundation, US Department of Defense, and W.K. Kellogg Foundation. **Appendices 1 and 2** list publications and grants, respectively. 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.

Broom Center researchers continue to collect new honors and awards. These are listed in **Appendix 3**, and we include some highlights here. Associate Director Shelly Lundberg received two major career honors: she was named the UCSB Faculty Research Lecturer in 2022, and was elected into the American Academy of Arts and Sciences in 2021. The Association of American Geographers awarded David Lopez-Carr the Susan Hardwick Excellence in Mentoring award. Our researchers continue to serve on dozens of editorial and advisory committees as well.

Research by Broom Center Research and Graduate Associates received significant media attention in 2021-22. **Appendix 4** lists some examples. Of particular note this year again is extensive national and international press coverage of research by Biodemography Area Director Michael Gurven, Raziel Davison and their team, including on ageing and the contribution of the elderly to family affairs (i.e. the 'active grandparent hypothesis'), which was featured in high-profile media outlets including the *New York Times*, and *SiriusXM*. Multiple news outlets noticed Amy Boddy's research, which uses insights from the health of other species to understand human health. Maria Charles continued to gain media attention with her research on women and STEM. Lastly, research on Latinx demography from one of our newer Associates, Liz Ackert, reached media and policy outlets as well.

Despite COVID-related challenges, the Broom Center hosted another successful [Seminar Series](#) during the 2021-22 academic year. These seminars took place every other Monday afternoon in North Hall from 1:00 – 2:15. Receptions following the talks were not possible due to COVID precautions.

¹ The count of publications in Appendix 1 includes all items that were published in 2021 or 2022, or forthcoming at the time of this writing. To ensure comparability over time, the Center uses the same approach in all its reports. "Other items" include encyclopedia entries, proceedings and reprints.

Instead, the seminars were followed by dedicated time for speakers to meet with graduate student associates. The series featured research talks by distinguished speakers from UCSB and around the state, country, and world. This last year's lineup included Erin Kelly (MIT, Work and Organization Studies), Sara Lowes (UCSD, Economics), Cate Taylor (UCSB, Sociology), Nicole Thompson González (UCSB, Anthropology), Alan Cohen (University of Sherbrooke, Family Medicine), Sonia Bhalotra (University of Warwick, Economics), Sara Lopus (Cal Poly, San Luis Obispo, Social Science), Kathy Baylis (UCSB, Geography), Hiram Beltrán-Sánchez (UCLA, Community Health Studies), Ryan Gabriel (Brigham Young University, Sociology), Christopher Barrett (Cornell University, Economics), Ellora Derenoncourt (Princeton University, Economics), Heather Royer, Susie Cassels, + Maria Charles (UCSB, Economics, Geography, Sociology), Christopher Golden (Harvard, Environmental Health, Global Health and Population), Hedwig Lee (Washington University in St. Louis, Sociology), Pamela Paxton (University of Texas at Austin, Sociology), and Emily Smith-Greenaway (University of Southern California, Sociology & Spatial Sciences). Appendix 5 provides more information on talks and speakers.

The Broom Center, with additional funding from the UCSB College of Letters & Science Council of Deans, sponsored a workshop on Population Health of Sexual and Gender Minorities on May 12-13, 2022. This incredibly fruitful workshop included nine invited speakers (see **Appendix 6** for the full list and program), two Broom Graduate Affiliate speakers, and 65 attendees. The goal of this workshop was to examine social, environmental, structural, and policy drivers of health disparities for sexual and gender minorities (SGM). We amassed experts to discuss new and forthcoming research in the field, and identified needs for future research. Through this workshop, we also supported graduate students pursuing research in this field with a panel discussion on data availability, methods, and funding opportunities.

The Broom Center awarded its tenth set of *Graduate Student Research and Travel (GSRT) grants* in April 2022. GSRT awards support dissertation research and attendance at training programs in demographic methods for qualifying Broom Graduate Associates. In the most recent GSRT funding round, 8 students received a total of \$9,130.00. **Appendix 7** provides a complete list of the Center's 2021-22 awards.

The Broom Center's *social demography computer lab*, located in North Hall, offers a graduate-student commons and meeting space, desktop computers and software ranging from the qualitative data analysis package Atlas.ti, to statistical packages like Stata, SAS and SPSS, to flexible programming languages like Matlab and R. Support on software, statistics, and study design is offered by a graduate student lab assistant, Sophia Arabadjis (Geography). The Broom computer lab continued to be improved and has a collaborative workspace, a large wall-mounted video display for presentations, two laptop-docking stations, two computer workstations, and a common room for socialization and collaboration.

The Human Biodemography Laboratory is a fully functional BSL-2 wet lab that 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 has resumed its operations under the leadership of Broom Biodemography Area Director Michael Gurven.

To facilitate training in demography and demographic methods, the Broom Center operates a series of *Research Methods Mini-Courses*, taught by the computer lab manager and other UCSB graduate students and faculty. These short modules are typically two-hour hands-on sessions. Methods courses during the past year have included workshops on the open-source programming language R, ethnographic methods, and multilevel modeling. Broom Graduate Associates also presented in-progress research and received feedback through *Graduate Lab Lunches*. **Appendix 8** provides details on 2021-22 Mini-Courses and Lab Lunches.

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 courses 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 dozen students from four departments are participating in the program, and three have officially graduated with an emphasis. An overview of the PhD Emphasis and its requirements can be found in **Appendix 9**.

We are proud to report that several Broom Graduate Associates finished their degrees during the 2021/22 academic year and have moved on to new positions in academia, government, and beyond. Recent graduates include Sarah Alami Gouraftei (School of Collective Intelligence, Mohammed VI University), Antoine Dib (World Bank), Maria Kogelnik (Postdoc at University of Amsterdam), Jacqueline Banks (U.S. Census Bureau), Virginia Leavell (Cambridge University), Karly Miller (Lecturer in Geography, UCSB), and Richard Uhrig (Bureau of Labor Statistics).

Research and education at the Broom Center are 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 Demography

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 17 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, Education and Immigration, Race, and Ethnicity. This year's publications on marriage and fertility in Tanzania by Broom Research Associate David Lawson (described under Biodemography and Evolution) also contribute to the Family

theme. Shelly Lundberg continues to co-edit a new Elsevier *Handbook of Family Economics*, which will be published in 2023.

In “Familism among Latino/a Adolescents: Evidence from Time-Use Data” (published in *Journal of Marriage and Family*), Broom Research Associate Elizabeth Ackert and coauthor Jocelyn S. Wikle examine patterns of time spent with family members among Latino/a, White and Black youth in the United States. The concept of *familismo* is expected to lead to more family-centric behavior among Latino/a adolescents, during a period when most American children begin to spend less family-centric time. In addition, the construct of *marianismo*—the belief that girls and women should emulate the Virgin Mary—may encourage Latina adolescent girls to spend even more time with family members. As expected, Latino/a youth do spend more time with family than White or Black youth, mainly as a result of having more siblings in the household. Latina girls spend large amounts of time with parents and siblings, substantially more than Latino boys or their White or Black peers. No significant differences are observed between immigrant and non-immigrant households, suggesting considerable persistence in cultural family attitudes.

Research Highlights: Biodemography and Evolution

The Broom Center's Biodemography area is directed by Michael Gurven. In its eleventh year, this area hosts eleven 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 twenty-nine publications from Sept 1, 2021-Aug 31, 2022 appear in diverse, prestigious journals, such as *Nature*, *Science*, *PNAS*, *Nature Communications*, *eLife*, *Evolution Medicine & Public Health*, *Current Biology*, and *Alzheimer's & Dementia*. 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 *Nature*, Boddy has co-authored the largest study to date on cancer risk in mammals, confirming that cancer risk does not increase with body mass or lifespan across mammals. They also found that carnivores get more cancer than other taxa. Another important focus of Boddy's work is reproduction and maternal health. A perspective review in *PNAS Nexus* reviewed autopsies and clinical studies from thousands of animals to highlight shared health vulnerabilities, such as endometrial pathologies, of female animals across the tree of life. Boddy's research demonstrates how awareness of these shared vulnerabilities can improve women's health. With a focus on breast cancer in humans, Boddy led a study to understand the effects of early life adversity and reproductive patterns on breast cancer risk. She and colleagues showed that early life adversity impacts reproductive

scheduling, which in turn, mediates breast cancer risk. A new line of research tackles the role of microchimerism on maternal health (see below).

Broom faculty associate David Lawson and Broom graduate associate Joseph Kilgallen published a paper on the determinants of intimate partner violence in rural Tanzania. While urbanization is often considered beneficial to women's empowerment, via increased education and wage-labor opportunities, they present evidence that such changes may also drive a violence backlash, with men increasing violence in the home in effort to retain male authority. The findings are published in the *Journal of Intimate Partner Violence*. Lawson also continued ongoing collaborative research projects on the causes of child marriage and on the formation of men's gender ideology in Tanzania.

Broom associates Gurven, and Raziel Davison challenge classical approaches to studying the evolution of senescence, showing how the contributions of elder adults to kin and others may have helped extend human longevity. Implications go beyond humans to consider how evolved life histories may be shaped by transfers in social species more generally. These findings appeared in *PNAS*.

In *Science*, Gurven, and Thomas Kraft showed that human hunter-gatherers and subsistence farmers spend more energy but less time on subsistence, and as a result, acquire substantially more energy per hour than our great ape cousins. These findings revise our understanding of human energetic evolution by indicating that humans afford expanded energy budgets primarily by increasing rates of energy acquisition, not through energy-saving adaptations such as bipedalism or sophisticated tool use. Time saved by human subsistence strategies provides more leisure time for social interaction and social learning and would have been critical for cumulative cultural evolution.

Gurven's research group (including Thomas Kraft) also showed that dementias are rare among Bolivian Amerindian populations. This study, in *Alzheimer's & Dementia*, will be a launching point for newly funded research to better understand conditions favoring slower cognitive aging. This study was covered widely in the media. Another paper in *Evolution, Medicine & Public Health* with Gurven's collaborators at Vanderbilt and Princeton show how wealth gradients can affect health in different ways even in the same ethnic group (in Kenya), based on important differences between rural and urban settings. This paper was an "Editor's Choice" winner.

Our graduate associates have also been productive. In *Behaviour*, student associate Hannah Frogge (with associate Brown) analyzed why population growth in blue monkeys is so constrained, an important advance given their low density in an otherwise productive forest. They conclude that the main culprit is feeding competition with grey-cheeked mangabeys. In *American Journal of Biological Anthropology*, student associate Amy Anderson and colleagues evaluated the role of different mechanisms to explain sex differences in contemporary childhood mortality in New Mexico using postmortem CT scans and autopsy reports. Such a study is important for improving inferences about morbidity in past populations where the main source of evidence is the skeletal record.

Three Broom faculty received major research funding, totaling over \$20 million. Brown received a National Science Foundation Grant (\$268,734, "Extreme competition among primate species:

Reproductive effects of feeding competition within a guild”). This grant has a strong diversity training component. Boddy, along with international collaborators, was awarded a \$5.4 million grant from the John Templeton Foundation, to investigate the transfer of cells from mother and baby during pregnancy, called microchimerism (“We All Are Multitudes: the Microchimerism, Human Health and Evolution Project”). Boddy will co-lead in this large initiative and is working with Cottage Health Research Institute to understand the variation in microchimerism and immune function in pregnant women. Gurven is PI on a new five-year NIH/NIA R01 (\$15 million, “Testing Hypothesized Pathways Linking Infection, Physical Activity, ApoE Genotype, And Biological Sex To Low Dementia Prevalence And Reduced Brain Atrophy In Two Native American Populations”) and on an Impetus Grant (\$90,000, “Toward a universal characterization of human aging: immunosenescence”).

Nicole González-Thompson is the lab manager of the Human Biodemography and Health Laboratory in BioEngineering. An undergrad lab class covered basics of human biology, biomarkers and applications to human health. Dr. González-Thompson is now a faculty associate of Broom, and will offer a more advanced class for graduate students (including Broom associates) in the coming academic year.

Research Highlights: Population Health and Environment

Professor Susan Cassels (Geography) directs the Center’s Population Health and Environment research area, and is the current Director of the Broom Center. This area has grown since last year, now with 21 graduate student associates, 2 postdoctoral researchers, and 13 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.

Many of our research affiliates have contributed to theories, conceptual frameworks, and innovative methods for examining scientific questions of population health and environment. Topics range from the role of water in environmental migration, to jointly considering extreme heat exposure and COVID-19 for farmworkers. David Lopez-Carr (Geography), with a multidisciplinary collaborative team, extended a framework to consider chronic issues like water insecurity and poor governance as they drive environmental migration, in addition to more commonly considered drivers like extreme events. Alan Murray (Geography), with co-authors including Broom graduate affiliate Amelia Pludow, published a number of papers advancing statistical techniques and applying them to a diverse range of population health topics, from sports to economic disparities and urban dynamics. In an article with numerous potential population health applications, Murray uses networks of spatio-temporal systems to illustrate how resiliency is measured. Susan Cassels (Geography) and Murray received a National Institutes of Health grant to use similar network analyses to examine sexual networks of sexual minority men in Los Angeles and identify the central connective nodes for optimizing HIV intervention strategies.

A number of empirical papers addressed key population health and environment issues as well. Broom graduate alumni Jacqueline Banks and Broom faculty associate Stuart Sweeney published a paper in *Spatial Demography* on the geography of women’s empowerment in West Africa. They used Demographic and Health Survey data from 14 countries in West Africa to analyze indicators of women’s

empowerment and its spatial variability. They found that women's empowerment relates to aspects of culture embedded in place in addition to socioeconomic and demographic characteristics. With graduate student Evgeny Noi, Alan Murray used innovative data to infer spatial heterogeneity of nitrogen dioxide in Russia. Their methods prove to be extremely useful when regular air quality monitoring is not available. In an article in *Land*, David Lopez-Carr and co-authors assessed the strength of proportional change in local and national pressures on forest cover relative to global agricultural trade. They found that predominant drivers of deforestation were pasture expansion and soybean production, mostly used to feed livestock, and that China's food demand was a significant driver. They conclude that our interconnected world blurs the lines between food demand and traditional forest transition theories.

Lastly, a number of Broom affiliates conducted excellent work on issues of population health that overlaps with other research themes in the Broom Center for demography. These topics include intimate partner violence (David Lawson, Joseph Kilgallen,), reproductive and maternal health (Amy Boddy), migration and mental health (Erika Arenas) and aging (Mike Gurven). Their work is detailed in the Biodemography and Evolution, Sex and Gender, and Immigration, Race and Ethnicity sections.

Research Highlights: Sex and Gender

During the 2021-22 academic year, the Broom Center Sex and Gender research area grew to sixteen graduate-student and fifteen faculty affiliates from diverse disciplines, including Anthropology, Economics, Geography, Marine Science, Political Science, Psychology, and Sociology. Coordinated by Sociology Professor Maria Charles, Sex and Gender Area researchers explore gender and sexuality at multiple analytical levels and using diverse methodological approaches, with topics ranging from gendered identities, attitudes, interactions, and institutions, to the modeling of local and global patterns of employment, education, family structure, and belief systems. Area affiliates produced an impressive body of innovative scholarship during the past research period. Selected examples are described below.

Applying diverse disciplinary and interdisciplinary lenses, Sex and Gender affiliates continue to publish research on the nature and meaning of gender as a social category. Examples include an experimental study by economist Gary Charness and coauthors, and an interview-based study by sociologist Verta Taylor and coauthors. "Which Social Categories Matter to People" by Charness *et al.* is based on a novel experimental market in which participants are asked to choose or discard potential game partners based on their gender, ethnicity, or religion. Results, published in *Journal of Economic Behavior and Organization*, confirm the strong salience of gender as a social category and show consistent preferences for female game partners across experimental conditions. "Learning to be Queer: College Women's Sexual Fluidity" explores the contextual contingency of sex and gender categorization itself. Based on interviews with 125 female-bodied college students who identify as sexual minorities, Taylor and coauthors show that gender and sexual identities are expansive and situationally contingent, with young college students increasingly calling themselves "queer," "pansexual," or "fluid" (rather than lesbian or bisexual), because their desires are variable and include the possibility of attraction to transgender and genderqueer people.

Broom Sex and Gender affiliates also frequently examine the operation of gender within and across intersecting social categories, including race, ethnicity, class and immigration status. Two recent examples explore gendered processes among recent Mexican migrants in the United States and between Palestinian and Jewish high school students in Israel. Joint effects of gender and nativity are evident in "Gender, Family Separation, and Negative Emotional Well-being among Recent Mexican Migrants" (*Journal of Marriage and Family*) by Erika Arenas. Using representative panel data on Mexican immigrants living in the United States, Arenas documents clear gender differences in effects of family separation on emotional health, with especially negative consequences on the emotional well-being of migrant women. In "Context Matters: The Gendering of Physics Coursework in Arabic-speaking, Hebrew-speaking, and Single-sex School Sectors in Israel" (published in *Sex Roles*), Maria Charles and collaborators find a much smaller gender gap in physics course-taking among Palestinian- than Jewish-serving high schools in Israel, and point to possible sociocultural differences in the processes generating gender segregation and STEM identities.

Other high-profile articles explore gender in the economics profession. In an article published in the *American Economic Association Papers and Proceedings*, Broom Associates Heather Royer and Kelly Bedard (with Maxine Lee) explore the gender pay gap among academic economists. Longitudinal data from 2005 to 2018 reveal growing salary gaps starting about a decade into the professional career that are partly attributable to women moving through academic ranks more slowly than men. In "Gender Economics: Dead-Ends and New Opportunities" (*Research in Labor Economics*) Broom Associate Director Shelly Lundberg focuses attention on the gendered assumptions underlying economic analyses of gender inequality, arguing that economists often employ a reductive framing in which gender gaps are either due to discrimination or to "choice." According to Lundberg, this framing fails to reflect the movement of the broader discipline toward more realistic models of cultural and social influences on behavior and preferences, and its persistence may reflect biases toward market logic and gender essentialism, and a tendency to view the default economic agent as male.

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 46 affiliates from a diversity of fields including Anthropology, Economics, Geography, Global Studies, Psychological and Brain Sciences, and Sociology. For the 2021-2022 period, Education and Health researchers produced 10 publications in journals such as *American Journal of Biological Anthropology*, *Developmental Psychology*, *Epidemics*, *Management Science*, *Health Affairs*, and *American Economic Association Papers and Proceedings*. Examples of these studies are below.

Affiliate Elizabeth Ackert and co-authors investigate how the access to health care resources for Latinx immigrants varies across geographies in a recently-published paper in *Health Affairs*. They classify geographic areas in terms of their history as a destination for Latinx immigrants. More established destinations are more likely to be designated as a health professional shortage area and have higher

rates of uninsurance. However, the health care safety net resources are more extensive in these established destinations.

Health behaviors are challenging to change. Yet, the possible benefits of improving health behaviors are vast, including increases in physical well-being, lengthening of life expectancy, better functional mobility. Given this environment, it is not surprising to see a growth in the use of incentives to encourage healthier habits. Firms frequently incentivize employees to become more physically fit in hopes of reducing health care costs. In a paper published in *Management Science*, Affiliate Heather Royer and co-authors study how to best structure these incentive programs. Given a fixed budget, is it better to start with large incentives initially that taper down or have constant-sized incentives? In theory, the “front-loaded” incentives may help procrastinators overcome startup costs to joining an incentive program. However, in the end, they show that the constant-sized incentives outperform the “front-loaded” incentives.

In sports, the home field advantage through its effect on crowd cheering is thought to be large. However, it is typically hard to identify the effect of having a home field advantage. During the Covid-19 pandemic, spectators were often prohibited from attending. Graduate Associate Richard Uhrig and co-author use this observation to understand how crowds affect home field advantage. They estimate that the home field advantage among professional soccer teams in Europe falls by 50 percent in light of the Covid-19 mitigation policies – suggesting that crowd cheering contributes significantly to performance at home.

Research Highlights: Immigration, Race and Ethnicity

Professor Erika Arenas directed the Broom Center’s Race, Ethnicity, and Immigration area during the 2021-22 academic year. The Race, Ethnicity, and Immigration area includes 14 research associates and 24 graduate student associates from Anthropology, Economics, Geography, Political Science, Global Studies, and Sociology. For the 2021-2022 period, our associates won grants and produced journal articles published in *the Journal of Marriage and Family*, *Developmental Psychology*, and the *Wiley Interdisciplinary Reviews: Water*.

A paper by Ackert and co-authors examined how differences in ecological contexts influenced Mexican-origin youth in terms of developing a science, technology, engineering, and mathematics (STEM) identity and efficacy. They found that, among this group, residing in traditional versus non-traditional Mexican immigrant destinations was associated with developing a STEM identity and/or efficacy during high school. This paper was published in 2022 in the journal of *Developmental Psychology*.

Finally, Broom Associate David López-Carr and co-authors investigated the relationship between water and environmental migration. In this article, they provided a conceptual framework to analyze how chronic water-related triggers, like those associated with extreme weather events, disasters, water insecurity and poor water governance, shape migration decision-making. This paper was published in 2022 in *Wiley Interdisciplinary Reviews: Water*.

Lastly, Broom Associate Susan Cassels received an NIH award to study substance use among Latinx gay, bisexual and other men who have sex with men (MSM) in Los Angeles, and a grant from UCSB Migration Initiative to study the social and structural determinants of HIV risk among Latinx immigrant MSM.

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
9. Interdisciplinary PhD Emphasis in Demography

Appendix 1

Publications, 2021 and 2022²

Elizabeth Ackert

Ackert, Elizabeth, and Jocelyn Wikle. 2022. Familism among Latino/a Adolescents: Evidence from Time-Use Data. *Journal of Marriage and Family*. 84(3):879-899. <http://doi.org/10.1111/jomf.12809>

Ackert, Elizabeth, Matthew Snidal, and Robert Crosnoe. 2021. The Development of Science, Technology, Engineering, and Mathematics (STEM) Efficacy and Identity among Mexican-Origin Youth across Latino/a Destinations. *Developmental Psychology*. 57(11):1910-1925. <https://doi.org/10.1037/dev0001251>

Amy Anderson

LO O'Donnell, EC Hill, AS Anderson, HJH Edgar. 2021. A biological approach to adult sex differences in skeletal indicators of childhood stress. *American Journal of Biological Anthropology*. <https://doi.org/10.1002/ajpa.24424>

Sophia Arabadjis

Arabadjis, S., Sweeney, S. 2022. New Methods in Time Use. In *JSM Proceedings*, Business and Economic Statistics Session. Washington D.C. American Statistical Association. *Forthcoming*.

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>

Erica Arenas

Arenas, Erika, Graciela Teruel, and Pablo Gaitán-Rossi. 2022. Time and Gender Measurement Invariance in the Modified Calderon Depression Scale. *Health and Quality of Life Outcomes*, 20, 100. <https://doi.org/10.1186/s12955-022-02007-8>

² To facilitate comparability of research output over time, this appendix reports all publications by Center Associates in 2021 and 2022, plus all accepted and forthcoming items. Items with multiple Broom authors are listed more than once in this report.

Ronnie Bailey-Steinitz

Brown, M., Steinitz, R., & Emery Thompson, M. (2022). Wins and losses in intergroup conflicts reflect energy balance in red-tailed monkeys. *Philosophical Transactions of the Royal Society B*, 377(1851), 20210152.

<https://doi.org/10.1098/rstb.2021.0152>

Amy Boddy

Boddy AM, Rupp S, Yu Z, Hanson H, Aktipis A, Smith K. 2022. In press. Early life adversity, reproductive history, and breast cancer risk. *Evolution, Medicine and Public Health*.

Abegglen LM, Harrison TM, Moresco A, Fowles JS, Troan BV, Kiso WK, Schmitt D, Boddy AM, Schiffman JD. 2022. In press. Of elephants and other mammals: A comparative review of reproductive tumors and potential impact on conservation. *Animals*.

Dujon AM, Boutry J, Tissot S, Lemaitre JF, Boddy AM, Gerard A, Alvergne A, Arnal A, Vincze O, Nicolas D, Giraudeau M, Telonis-Scott M, Schultz A, Pujol P, Biro P, Beckmann C, Hamede R, Roche B, Ujvari B, Thomas F. 2022. Cancer susceptibility as a cost of reproduction and contributor to life history evolution. *Frontiers in Ecology and Evolution*. 10 (2022): 861103.

Natterson-Horowitz B, Boddy AM, Zimmerman, D. 2022. Female Health Across the Tree of Life: Insights at the Intersection of Women's Health, One Health and Planetary Health. *PNAS nexus* 1.2 (2022): pgac044.

Vincze O, Colchero F, Lemaitre JF, Conde D, Pavard S, Bieuville M, Urrutia AO, Ujvari B, Boddy AM, Maley CC, Thomas F, Giraudeau M. 2022. Cancer risk across mammals. *Nature*. 601.7892 263-267

Tollis M, Ferris E, Campbell M, Harris V, Rupp S, Harrison T, Kiso WK, Schmitt D, Aktipis A, Maley C, Boddy AM, Yandell M, Sciffman JD, Abegglen LM. 2021. Elephant genome reveal accelerated evolution in mechanisms underlying disease defenses. *Molecular Biology and Evolution*. 38.9 3606-3620.

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Susan Cassels

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Maria Charles

Maria Charles, Roger Friedland, Janet Afary, and Rujun Yang. 2022, forthcoming. Complicating Patriarchy: Gender Beliefs of Muslim Facebook Users in the Middle East, North Africa and South Asia. *Gender & Society*.

Carmel Blank, Maria Charles, Yariv Feniger, Halleli Pinson. 2022. Context Matters: The Gendering of Physics Coursework in Arabic-speaking, Hebrew-speaking, and Single-sex School Sectors in Israel. *Sex Roles*. 10.1007/s11199-022-01292-3

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Gary Charness

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Gary Charness (with Daniela Grieco). Forthcoming. Creativity and Ambiguity Tolerance. *Economics Letters*.

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Gary Charness (with Anya Samek and Jeroen van de Ven). 2022. A Survey on Attitudes Towards Deception in Experimental Economics. *Experimental Economics*, 385, April, 2022, 385-412.

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Raziel Davison

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Hannah Frogge

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Michael Gurven

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Charlotte Hoppen

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Joseph Kilgallen

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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

López-Carr, D., Jennifer Vanos, Armando Sánchez-Vargas, Río Vargas, and Federico Castillo. 2022. Extreme heat and COVID-19: a dual burden for farmworkers. *Frontiers in public health* 10.

López-Carr, D., Ryan, S. J., & Clark, M. L. 2022. Global Economic and Diet Transitions Drive Latin American and Caribbean Forest Change during the First Decade of the Century: A Multi-Scale Analysis of Socioeconomic, Demographic, and Environmental Drivers of Local Forest Cover Change. *Land*, 11(3), 326.

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David López-Carr. 2021. Small farmer land use and deforestation in tropical forest frontiers: Implications for conservation and sustainable livelihoods. *Land* 10(11), 1113

Alan Murray

B.A. Pludow, A.T. Murray and R.L. Church. 2022. Service quality modeling to support optimizing facility location in a microscale environment. *Socio-Economic Planning Sciences* 82, 101273 (DOI: 10.1016/j.seps.2022.101273).

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E. Noi and A.T. Murray. 2022. Interpolation biases in assessing spatial heterogeneity of outdoor air quality in Moscow, Russia. *Land Use Policy* 112, 105783 (DOI: 10.1016/j.landusepol.2021.105783).

A.T. Murray, A. Ortiz and S. Cho. 2022. Enhancing strategic defensive positioning and performance in the outfield. *Journal of Geographical Systems* 24, 223-240 (DOI: 10.1007/s10109-021-00367-1).

S. Burtner and A.T. Murray. 2022. COVID-19 and minimizing micro-spatial interactions. *ACM Transactions on Spatial Algorithms and Systems* 8, 1-17 (DOI: 10.1145/3486970).

X. Feng, A.T. Murray and R.L. Church. 2021. Drone service response: spatiotemporal heterogeneity implications. *Journal of Transport Geography* 93, 103074 (DOI: 10.1016/j.jtrangeo.2021.103074).

C. Jin and A.T. Murray. 2021. Exploring public open data: micro-scale spatiotemporal dynamics of restaurant entrepreneurship in Seoul, Korea. *International Journal of Geospatial and Environmental Research* 8(3), 5.

A.T. Murray. 2021. Resilience in complex networks. In *Handbook on Entropy, Complexity and Spatial Dynamics: A Rebirth of Theory?* edited by A. Reggiani, L.A. Schintler, D. Czamanski and R. Patuelli, 418-431 (Edward Elgar Publishing) (DOI: <https://doi.org/10.4337/9781839100598>).

X. Feng, S. Wang, A.T. Murray, Y. Cao and S. Gao. 2021. Multi-objective trajectory optimization in planning for sequential activities across space and through time. *Environment and Planning B: Urban Analytics and City Science* 48, 945-963 (DOI: 10.1177/2399808320913300).

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*.

Verta Taylor

Leila J. Rupp, Verta Taylor, and Shaeleya D. Miller. 2022 Pp. 579-90 in. *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.

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.

Richard Uhrig

Cross, Jeffrey, and Richard Uhrig. 2022. Do Fans Impact Sports Outcomes? A COVID-19 Natural Experiment. *Journal of Sports Economics*, (May 2022). <https://doi.org/10.1177/15270025221100204>.
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Appendix 2

Active Funding, 2021/2022

Elizabeth Ackert

UCSB Office of Research Early-Stage Seed Grants Award. Facilitating the Integration of U.S. Climate and Human Population Data. (PI). 2022. \$9,976

National Science Foundation (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

UCSB 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. \$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.

Erika Arenas

UCSB Regents' Humanities Faculty Fellowship Award Research Assistance Program Award (\$8,000)

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.

Ronnie Bailey-Steinitz

National Science Foundation - Doctoral Dissertation Research Improvement Grant. Co-PI; \$31,062

UCSB Graduate Opportunity Fellowship (2021-22) \$42,435

Amy Boddy

John Templeton Foundation: *We All Are Multitudes: the Microchimerism, Human Health and Evolution Project*. \$5,339,697 total. Boddy is Co-leader; \$1,099,188 total to UCSB. 2021-2024.

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.

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. *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. *Prevalence of reproductive cancers in nonhuman primates*. Boddy is Co-PI. \$7,350 total direct. 2021-2022.

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

Susan Cassels

Making space for HIV prevention: substance use among Latinx MSM in LA hotspots
NIH/NIDA 3R21 DA049643-02S1. PI. 7/2021 – 6/2023 (NCE). \$148,692

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

US-Israel Binational Science Foundation. 2019-2023. Why Do More Palestinian 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.

UCSB Academic Senate. 2021-2023. 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.

Hannah Frogge

UCSB Research Accelerator Grant- I was granted \$5,000 to support my Winter 2023 field season

Michael Gurven

National Institutes of Health/NIA Grant. 2022-2027 (Joint PI: Gurven, Kaplan, Finch, Thomas) \$15,000,000.

Impetus Grant. Toward a universal characterization of human aging: immunosenescence. 2021. (joint-PIs: Gurven, Alan Cohen) \$90,000.

Fellow, American Association for the Advancement of Science (AAAS). 2022.

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.

Yifan (Flora) He

Michael J. Connell Memorial Fund Research Award. 2022-2024. Bren School of Environmental Science and Management, University of California, Santa Barbara. Assessing socioeconomic and environmental impacts of land use restrictions in Indigenous lands in Brazil. PI. \$15,000.

Environmental Justice Research Fund. 2022. Bren School of Environmental Science and Management, University of California, Santa Barbara. \$1,000.

Individualized Professional Skills Grant. 2022. University of California, Santa Barbara. \$1,000.

Charlotte Hoppen

Research Seed Grant, Sociology Department, UCSB, 2022. \$1,000.

Joseph Kilgallen

UCSB Research Accelerator Grant- I am PI on the grant supporting Summer 2022 PhD data collection for the project. The Cost of Change: The social and reproductive ramifications for men supporting women's empowerment. \$8,000.

European Human Behavior and Evolution Association Conference 2022- Best Speed Talk Award- total 100 Euros

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 ISBER Collaborative Research Initiative Grant program. "Integrating planetary health into households and communities in the Maya Biosphere Reserve (MBR), Guatemala". 7/1/2022-6/30/2023. \$7,975.

UCSB Senate Faculty Research Grant. Does 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

Alan Murray

National Science Foundation. 2017-2022. 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.

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.

Sarah Papich

California Policy Lab. 2022 \$6,500 Seed Grant. PI Sarah Papich

Graduate Fellow Grant. 2022. \$10,000. PI Sarah Papich

Sean Reid

Research Program on Migration and Health (PIMSA) Dissertation Grant Award. Density, migration, and mobility of Mexican Latino Immigrant MSM in the United States. 2021-2022. PI, \$2,000.

Jimena Rico-Straffon

Deacon Fellowship, UCSB Economics Department

UC MEXUS- CONACYT Doctoral Fellowship

UC Berkeley and Alfred P. Sloan Foundation, Diversity Fellowship for participating in the Berkeley/Sloan Summer School in Energy and Environmental Economics, \$1,000

CAF Development Bank of Latin America, Research Grant on Sustainable Development in Latin America and the Caribbean, co-PI, \$6,000

Appendix 3

Honors and Recognition, 2021/22

Maria Charles

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

2022 Association of American Geographers *Susan Hardwick Excellence in Mentoring Award*

Nominated for the 2021 UCSB *Margaret T. Getman Service to Students Award*

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

Elected American Academy of Arts and Sciences, 2021

UCSB Faculty Research Lecturer, 2022

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

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).

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).

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, 2021/2022

Amy Anderson

Human Biology Association's podcast, 'The Sausage of Science': <https://www.humbio.org/sos-167-understanding-human-health-via-the-skeleton-in-contemporary-populations-w-amy-anderson/>

Liz Ackert

UCSB Current article: <https://www.news.ucsb.edu/2022/020587/art-reflects-life>

BYU News: <https://news.byu.edu/intellect/would-mirabel-from-encanto-be-as-connected-to-her-family-if-she-lived-in-the-us-byu-study-says-yes>

Child & Family Blog: <https://childandfamilyblog.com/latina-teenagers-spend-more-time-with-their-families/>

Amy Boddy

2022: Interviewed by the UCSB Current, [A Planetary Sisterhood](#)

2022: Interviewed by Carrie Arnold, Scientific American, [Insights from Pregnancy Could Help Fight Cancer](#)

2022: Interviewed by the UCSB Current, [The Multitudes Within Us](#)

2022: Interviewed by the UCSB Current, [Animals and the Big C](#)

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](#)

Maria Charles

Maria Charles. Work 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. 2021.

Maria Charles. Work/interview featured in *STEM Voices: The Experiences of Women and Minorities in Science, Technology, Engineering, and Math Occupations* by Anne Kim. Washington DC: American Enterprise Institute.

Raziel Davison

UCSB Current press release for our most recent publication (Davison & Gurven 2022, *PNAS*)
[The Importance of Elders | The UCSB Current](#)

Michael Gurven

NY Times: <https://www.nytimes.com/2022/02/02/well/move/aging-exercise-grandparents.html?searchResultPosition=1>

Wired: <https://www.wired.com/story/depression-social-media-tsimane-mental-health/>

Express: <https://www.express.co.uk/life-style/health/1638920/how-to-live-longer-grandmother-hypothesis>

Podcast/Programs:

Doctor Radio SiriusXM “Healthy Aging”: <https://www.siriusxm.com/channels/doctor-radio>
(Recorded 8/1/2022, and so isn’t posted yet I don’t think)

UCSB Press Releases:

The Importance of Elders <https://www.news.ucsb.edu/2022/020677/importance-elders>

Thanks for the Memory <https://www.news.ucsb.edu/2022/020576/thanks-memory>

All in a Day’s Work <https://www.news.ucsb.edu/2021/020496/all-day-s-work>

David Lawson

UCSB Current article: <https://www.news.ucsb.edu/2021/020475/cost-change>

What Men Want: <https://www.news.ucsb.edu/2021/020235/what-men-want>

Parachute Failure: <https://www.news.ucsb.edu/2021/020207/parachute-failure>

Appendix 5

Seminar Schedule, 2021/2022

During the 2021/22 academic year, Broom Center Seminars were held both in person and remotely, due to COVID-19 restrictions.

FALL

Monday, September 27 (remote):

Erin Kelly (MIT, Work and Organization Studies)

“Overload: How Good Jobs Went Bad and What We Can Do About It”

Host: Sarah Thébaud

Monday, October 11:

Sara Lowes (UC San Diego, Economics)

“Traditional Supernatural Beliefs and Prosocial Behavior.”

Host: Heather Royer

Monday, October 25:

Cate Taylor (UCSB, Sociology)

“Gender Essentialist Views are Related to Lower Support for Legal Abortion.”

Monday, November 1:

Nicole Thompson González UCSB, Biobehavioral Health Lab Manager

“Biomarkers in the Social Sciences and the Biobehavioral Health Lab at UCSB.”

Monday, November 8:

Alan Cohen (University of Sherbrooke, Department of Family Medicine)

“What is aging and how do we measure it? Bridging biology and social science perspectives”

Host: Mike Gurven

Monday, November 15: (remote)

Sonia Bhalotra (University of Warwick, Economics)

“Adolescent Antidepressant Use and School Performance - Evidence from Danish Administrative Data.”

Host: Kelsey Jack

MONDAY, NOVEMBER 22

Sara Lopus (Cal Poly, San Luis Obispo, Social Science)

“Educational Expansion and Family Formation in Sub-Saharan Africa.”

Host: Cate Taylor

WINTER

Monday, January 10:

Kathy Baylis (UCSB, Geography)

"How do Food Subsidies in Developing Countries Affect Child Nutrition?"

Monday, January 31:

Hiram Beltrán-Sánchez (UCLA, Community Health Studies)

"Modeling Biological Age and Its Link with the Aging Process."

Host: Erika Arenas

Monday, February 7 (remote):

Ryan Gabriel (Brigham Young University, Sociology)

"The Migration of Lynch Victims' Families, 1920-1930."

Host: Liz Ackert

Monday, February 28:

Christopher Barrett (Cornell University, Economics)

"Food Security Dynamics in the United States, 2001-2017."

Host: Kathy Baylis

Monday, March 7:

Ellora Derenoncourt (Princeton University, Economics)

"Wealth of Two Nations: The US Racial Gap from 1860-2020."

Host: Shelly Lundberg

SPRING

Monday, April 4:

Heather Royer, Susie Cassels, Maria Charles (UCSB, Economics, Geography, Sociology)

"Professional Development: The Nuts and Bolts of Grants and Publications"

Monday, April 11 (remote):

Christopher Golden (Harvard, Environmental Health, Global Health and Population)

"The Impact of Global Wildlife Declines on Human Nutrition"

Host: Mike Gurven

Monday, April 25 (remote):

Hedwig Lee (Washington University in St. Louis, Sociology)

"Exploring the Role of Skin Tone in the Risk of Being Killed by Police among Black Americans"

Host: Liz Ackert

Monday, May 9:

Pamela Paxton (University of Texas at Austin, Sociology)

"Deconstructed and Constructive Logistics: Explaining Inclusive Language Change in Queer Nonprofits, 1998-2016."

Host: Maria Charles

Monday, May 23:

Emily Smith-Greenaway (University of Southern California, Sociology & Spatial Sciences)

"Demographers and the Study of Mortality: What Can We Learn from a Bereavement Perspective?"

Host: David Lawson

Appendix 6

2021/22 Workshops

May 12 & 13, 2022

Research Workshop

Population Health for Sexual and Gender Minorities

The goal of this workshop is to examine social, environmental, structural, and policy drivers of health disparities for sexual and gender minorities (SGM). Research on health for SGM is underrepresented in the literature, yet the health disparities suffered by these groups is large. Improving the health of sexual and gender minorities is a pressing national health concern. The aim of our Broom-sponsored workshop is to amass experts to discuss new and forthcoming research in the field, and identify needs for future research. A second aim is to support graduate students who would like to pursue research in this field, by offering support on data availability, methods, and funding opportunities.

Thursday May 12th

3:00 - 3:15: Welcome and Opening Remarks
3:30 - 4:45: Keynote presentation

Bethany Everett, Associate Professor, University of Utah: “Using Heteropatriarchy as a Framework to Bridge the Gap Between “Women’s Health” and LGBT Health Research”

Friday May 13th

8:00 - 9:00: Continental Breakfast
9:00 - 9:50: Panel – Thinking About Counting

Danya Lagos, Assistant Professor, Department of Sociology, UC Berkeley: “Has There Been a Transgender Tipping Point? Gender Identification Differences in U.S. Cohorts Born Between 1935 and 2001”

Gary Gates, retired Distinguished Scholar and Research Director, Williams Institute, UCLA: “LGBTQ+ Demography: New findings and methodological challenges”

10:00 - 10:50: Panel – Population Health Disparities (Part 1)

Allen Mallory, Presidential Postdoctoral Scholar, The Ohio State University: “Intersectionality and Population Health Among Sexual Minorities”

Tania Israel, Professor, Department of Counseling, Clinical and School Psychology, UCSB: “Bisexual Health Disparities: Challenges and Change”

11:00 - 11:30: Coffee Break
11:30 - 12:20: Panel – Population Health Disparities (Part 2)

Terrell Winder, Assistant Professor, Department of Sociology, UCSB: “Mental Health and HIV Disparities Among Black Gay Men in Los Angeles and New Orleans”

Alison Cerezo, Assistant Professor, Department of Counseling, Clinical and School Psychology, UCSB: “When You Can't Go Home: Exploring the Link between Loss of Ethnic-Racial Community and Mental Health Distress among Black and Latina Sexual and Gender Diverse Women”

12:30 - 2:00: Lunch

2:00 - 2:50: Panel – Stigma and Population Health

Bruce Link, Distinguished Professor of Public Policy and Sociology, UC Riverside: “On the Consequences of Stigma's Hidden Mechanisms”

Mark Hatzenbuehler, John L. Loeb Associate Professor of the Social Sciences, Department of Psychology, Harvard University: “Structural Stigma and LGBT Health”

3:00 - 3:15: Coffee Break

3:15 - 4:15: Flash Talks + Roundtable – Early Career Scholars in Sexual and Gender

Minorities Research

Jason Budge, Graduate Student, Department of Sociology: Does Medicaid Expansion Reduced HIV/AIDS Rates? A Difference-in-Differences Analysis

Sean Reid, Graduate student, Department of Geography, UCSB: "Migration and Health of Sexual and Gender Minorities: Scale, Resolution, and Data Needs"

Roundtable Panel: Bethany Everett (moderator), Allen Mallory, Danya Lagos, Jason Budge, Sean Reid

4:15 – 5:00 Wine reception, hosted by Dr. Gary Gates and [Timbre Winery](#)

Appendix 7

Graduate Student Research and Training (GSRT) Grants Awarded, 2021/22

Awarded Spring 2022

Gabrielle Benoit

Geography
2020 ICPSR
Awarded \$2000

Hannah Frogge

Anthropology
Research and kit purchase
Awarded \$1950

Yigfan (Flora) He

Bren School
Research Travel
Awarded \$2000

Joseph Kilgallen

Anthropology
Research Travel
Awarded \$2000

PAA 2022 Awards for Accepted Papers

Gabrielle Benoit

Geography
Registration cost: \$90

Jason Budge

Sociology
Registration cost: \$90

Sean Reid

Geography
Registration cost: \$500

Ana Jakiewicz

Economics
Registration cost: \$500

Sigrid Van Den Abbeele

Geography

Registration cost: \$90

Katie McMahon

Geography

Registration cost: \$500

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

Appendix 8

Methods Mini-Courses and Graduate Student Presentations, 2021/22

2021/2022 Mini-Courses

Intro to Python: get Up and Running

This course provides a basic introduction to using Python for data cleaning and analysis.

Instructor: Sean Reid, Geography

Wednesday, April 13, 2022

1053 North Hall (Broom Computer Lab)

Multilevel Modeling for All

This course provides an intuitive approach to multilevel modeling in the social sciences.

Instructor: Jason Budge, Sociology

Wednesday, April 27, 2022

Zoom

Spatial Data with R

This course provides an introduction to working with spatial data in R, particularly visualization and spatial operations.

Instructor: Sophia Arabadjis, Geography

Monday, May 9, 2022

Hybrid Zoom and 5723 Ellison Hall

Attempted Course Offerings (Not enough interested students; working on summer offering)

Spring into Summer – STATA Series

Instructors:

Charlotte Hoppen

Roberto Amaral Santos

Micah Villareal

Descriptions:

Intro to STATA: This course provides instruction on data cleaning and crosstabs with STATA

Analysis with STATA: This course provides an introduction to regression analyses and loops in STATA

Writing with STATA: This course provides instruction on syncing up Latex and STATA.

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. Requests to have new courses or special topics courses considered for credit should be directed to Shelly Lundberg.
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]