

University of Washington
Center for Studies in Demography and Ecology
1901 Chelan Lane
Seattle, WA 98195

April 28th, 2022

Dear Sara Curran and CSDE hiring team,

Please see the attached materials for my complete application for the position of **Biodemography Lab Director/Research Scientist IV**.

- With a BS in Human Biology, a PhD in Biological and Physical Anthropology, and 7+ years of experience conducting research across diverse populations, I am well prepared to excel in this role.
- I'm a credentialed Medical Assistant Phlebotomist in the state of Washington, qualified to perform capillary draws and venipuncture. I also have experience conducting in-house assays on multiple types of specimens (e.g., dried blood spots, saliva) measuring different analytes (e.g., cortisol, C-reactive protein).
- As a graduate researcher for the Tsimane Health and Life History Project, I collaborated with multiple colleagues across different institutions to conduct cross-population studies on human health and disease utilizing pre-existing longitudinal and cross-sectional data.
- As principal investigator for the Seattle Postpartum Health Study, I obtained funding from the National Science Foundation and Wenner-Gren Foundation, developed study protocols, designed questionnaires, recruited participants, collected survey and biological data, and performed statistical analyses to generate novel findings relevant to public health.
- My experience as research mentor, graduate teaching assistant, and adjunct laboratory professor has prepared me to serve the diverse needs of undergraduate research students.

In sum, I would bring end-to-end research expertise, a collaborative attitude, a passion for teaching and mentorship, and a strong motivation to learn new skills to this position.

I am happy to provide any additional information regarding my qualifications for this position.
Thank you for your time and consideration.

Sincerely,

Carmen Hové

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CARMEN HOVÉ

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EDUCATION

Doctor of Philosophy (PhD) | Sep 2015-Mar 2022

University of California Santa Barbara, Physical and Biological Anthropology

Bachelor of Science (BS) | Sep 2010-Jun 2014

Seattle Pacific University, Human Biology, *cum laude*

CERTIFICATIONS

Licensed Medical Assistant Phlebotomist | Dec 2018-Present

North Seattle Community College, Basic Blood Collection

Active Washington State Provider # 60925903

PROFESSIONAL EXPERIENCE

Research Scientist | Jan 2022-Present

University of Washington, Seattle, WA

- Research Scientist for the Center for Studies in Demography and Ecology Human Biodemography lab
- Processing hair and dried blood spot samples and running in-house single and multiplex ELISA assays for domestic and international epidemiological studies (e.g., SHINE study, Seattle Postpartum Health Study)
- Training research personnel on appropriate blood collection and assay protocols

Principal Investigator | Oct 2020-Mar 2022

University of California, Santa Barbara, CA

- Designed and executed study investigating the effects of breastfeeding behavior on depressive symptoms, physical health, and immune phenotype among postpartum mothers in the United States (n=97)
- Adapted original study design to accommodate rapid changes in research protocols following COVID-19 restrictions while retaining research objectives and methodological rigor
- Managed research assistant in sample collection/study operations and coordinated participant engagement
- Secured project funding from National Science Foundation (\$19,896) and Wenner-Gren Foundation (\$19,996)
- Established successful protocols for collecting and analyzing qualitative survey data and salivary/blood-based biomarkers, in collaboration with UW CSDE Human Biodemography lab
- Employed causal diagrams to identify collider variables, specify response and predictor variables, and determine population and group-level terms used in Bayesian multilevel models

Graduate Research Fellow | Sep 2015-Sep 2021

University of California, Santa Barbara, CA

- Graduate researcher on the Tsimane Health and Life History Project (THLHP), a long-term bio-behavioral study on the epidemiology of health and mortality among indigenous populations in the Bolivian Amazon
- Merged demographic, medical, and flow cytometry data from the THLHP and the CDC to compare the effects of reproductive status on immune function across populations using non-parametric hierarchical Bayesian models
- Collaborated with 8 colleagues at 5 different institutions to write corresponding peer-reviewed papers
- Presented research findings at 6 conferences, winning student award for best podium presentation at 2019 Human Biology Association annual meeting

- Secured NSF GFRP award (\$138,000) and 5 internal grants (\$6,288) to fund research program
- Associated lab work included in-house cortisol and C-reactive Protein ELISA for salivary and dried blood spot samples (UCSB Biobehavioral Health Laboratory)

Post Baccalaureate Research Fellow | Jun 2014-Jun 2015

Seattle Pacific University, Seattle, WA

- Used portable respirometry and temperature telemetry techniques to investigate the energetic and thermoregulatory costs of walking at different speeds and on variable terrain
- Executed recruitment and retention of 14 participants based on stringent inclusion criteria (e.g., absence of hormonal birth control, level of baseline physical fitness, anaerobic threshold)
- Presented results at 2 conferences, findings reported in journal of Integrative & Comparative Biology

Data Technician | May 2013-Nov 2013

Fred Hutchinson Cancer Research Center, Seattle, WA

- Executed data management program for the Objective Physical Activity and Cardiovascular Health study, an ancillary study of the Women's Health Initiative (one of the largest clinical studies on female health)
- Cleaned and entered data on sedentary behavior and physical activity, recruited and retained participants
- Scheduled, coordinated, and scribed for weekly meeting with international group of principal investigators, synthesized complex real-time conversations into useful action-based summaries

PUBLISHED PAPERS / ABSTRACTS

1. **Hové C**, Trumble BC, Anderson AS, Stieglitz J, Kaplan H, Gurven MD, Blackwell AD. 2020. Flexibility of fetal tolerance: Immune function during pregnancy varies between ecologically distinct populations. *Evol Med Public Heal*.
2. Anderson AS, Trumble BC, **Hové C**, Kraft TS, Kaplan H, Gurven M, Blackwell AD. 2019. Old friends and friendly fire: Pregnancy, hookworm infection, and anemia among tropical horticulturalists. *Am J Hum Biol*:1–15.
3. **Hové CM**, Trumble BC, Stieglitz J, Gurven M, Kaplan H, Boddy AM, Blackwell AD. 2019. Socioecological conditions shape postpartum immune trajectories. *Journal of Human Biology Abstracts*.
4. **Hové CM**, Trumble BC, Anderson AS, Stieglitz J, Gurven M, Kaplan H, Blackwell AD. 2019. The flexibility of fetal tolerance: how immune function during pregnancy varies between two ecologically distinct populations. *Journal of Human Biology Abstracts*.
5. **Hové CM**, Blackwell AD, Trumble BC, Suarez IM, Stieglitz J, Beheim B, Snodgrass JJ, Gurven M, Kaplan H. 2017. Immune Modulation during Pregnancy for Women in a High Pathogen Environment. *Journal of Human Biology Abstracts*. Available from: <https://doi.org/10.1002/ajhb.22974>.
6. **Hové CM**, Wall-Scheffler CM. 2015. Comparing optimal and preferred walking speeds. *American Journal of Physical Anthropology Suppl.* 60:170.
7. **Hové CM**, Wagnild JM, Wall-Scheffler CM. 2014. The Humor gender gap: How gender and humor interact to influence social behavior. *American Journal of Physical Anthropology Suppl.* 58:145-6.
8. Jones C, **Hové CM**, Wagnild JM, Wall-Scheffler CM. 2014. How travel time influences sexual dimorphism. *American Journal of Physical Anthropology Suppl.* 58:153.

CONFERENCE PRESENTATIONS

- **University of Washington BASS Seminar Series**, Seattle, WA | 2019
The flexibility of fetal tolerance: how immune function during pregnancy varies between two ecologically distinct populations (Podium)
- **Human Biology Association**, Cleveland, OH | 2019
The flexibility of fetal tolerance: how immune function during pregnancy varies between two ecologically distinct populations (Podium)

- **UCSB Anthropology Grad-Slam**, Santa Barbara, CA | 2017
Immune Modulation during Pregnancy for Women in a High Pathogen Environment (Podium)
- **Human Biology Association**, New Orleans, LA | 2017
Immune Modulation during Pregnancy for Women in a High Pathogen Environment (Poster)
- **International Society for Evolution, Medicine & Public Health**, Raleigh, NC | 2016
Immune Modulation during Pregnancy for Women in a High Pathogen Environment (Poster)
- **California Workshop for Evolutionary Social Science**, San Luis Obispo, CA | 2016
Immune Modulation during Pregnancy for Women in a High Pathogen Environment (Poster)
- **SPU Summer Research Symposium**, Seattle, WA | 2014
Comparing optimal and preferred walking speeds (Podium)
- **Murdock College Science Research Conference**, Vancouver, WA | 2014
Comparing optimal and preferred walking speeds (Poster)
- **SPU Erickson Undergraduate Research Conference**, Seattle, WA | 2014
The humor gender gap: how gender and humor interact to influence social behavior (Podium)
- **American Association for Physical Anthropology**, Calgary, Canada | 2014
How gender and humor interact to influence social behavior (Poster)
- **Murdock College Science Research Conference**, Vancouver, WA | 2013
How gender and humor interact to influence social behavior (Poster)

RESEARCH GRANTS

- 2021 **Elings Wells Dissertation Fellowship** (\$8000), UCSB Department of Anthropology
- 2020 **Dissertation Fieldwork Grant** (\$19,998), Wenner-Gren Foundation
- 2020 **Dissertation Improvement Grant** (\$30,934), National Science Foundation
- 2019 **Graduate Student Research and Travel Grant** (\$1,258), UCSB Broom Center for Demography
- 2018 **Graduate Student Research and Travel Grant** (\$2,000), UCSB Broom Center for Demography
- 2018 **Summer Research Grant** (\$630), UCSB Anthropology Department
- 2017 **Summer Travel Grant** (\$400), UCSB Anthropology Department
- 2016 **Graduate Research Fellowship Program** (\$138,000), National Science Foundation
- 2016 **Summer Research Grant** (\$2,000), UCSB Anthropology Department

FELLOWSHIPS / AWARDS

- 2019 **Edward E. Hunt Jr. Student Award**, Human Biology Association Annual Meeting
- 2017 **2nd Place Flash-Talk Award**, Anthropology Grad-Slam, UCSB Department of Anthropology
- 2017 **Conference Travel Award** (\$500), Human Biology Association
- 2016 **Conference Travel Fellowship** (\$700), Int'l Society for Evolution, Medicine & Public Health
- 2016 **William S. Pollitzer Travel Award** (\$500), American Association of Physical Anthropology
- 2016 **2nd Place Poster Prize**, California Workshop for Evolutionary Social Science
- 2014 **Best Oral Presentation**, Erickson Undergraduate Research Conference, Seattle Pacific University
- 2015 **UC Regents in the Disciplines Fellowship** (\$59,784), UCSB Department of Anthropology
- 2011 **Vereide Award** (\$2,024), Seattle Pacific University
- 2010 **President's Scholar Award** (\$48,000), Seattle Pacific University

TEACHING / OUTREACH

Research Mentor | Jun 2020-Aug 2021

University of California, Santa Barbara, CA

- Selected as mentor for highly competitive summer research program serving accelerated high school students in STEM
- Advised 6 mentees on novel hypothesis formulation, statistical methods, and R programming using real-world datasets, culminating in final paper and presentation produced by each student

- Cultivated students' intellectual independence, teamwork, communication skills, and critical thinking skills

STEM Tutor | Sep 2015-Jun 2018

Girls Inc., Santa Barbara, CA

- Tutored group of local junior high students in STEM topics on a weekly basis
- Adjusted approach based on individual grade, class type, and skill level
- Student progress over time included advancement from D grade to A- in Biology within single semester

Graduate Teaching Assistant | Sep 2015-Jun 2017

University of California, Santa Barbara, CA

- Discussion section instructor for Introduction to Biological Anthropology
- Utilized concept maps, discussion sections, and lectures to promote student learning
- Received an average rating of 4.7 out of 5 on final student evaluations

Post Baccalaureate Adjunct Laboratory Instructor | Sep 2014-Jun 2015

Seattle Pacific University, Seattle, WA

- Taught laboratory classes in general biology and human anatomy/physiology I and II
- Spearheaded experiment-based pedagogy, wherein students developed novel protocols and conducted independent investigations of biological processes (e.g., quantifying variation in dive response)
- Received an average rating of 4.7 out of 5 on final student evaluations

Undergraduate Teaching/Laboratory Assistant | Sep 2013-Jun 2014

Seattle Pacific University, Seattle, WA

- Teaching assistant for Introduction to the Health Professions
- Lab assistant for General Chemistry II and Organic Chemistry
- Chemical and reagent preparation