

Marcela Radtke

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EDUCATION

Propel Postdoctoral Research Fellow

Department of Epidemiology & Population Health
Stanford University School of Medicine
Advisor: Lisa Goldman Rosas, PhD, MPH

Doctorate in Nutritional Biology

With an emphasis in Cognitive Neuroscience

University of California, Davis
Advisors: Francene Steinberg, PhD, RD and Rachel E. Scherr, PhD
Completed: May 2023

Bachelor of Science in Nutrition Science with an Emphasis in Human Biology

With a Minor in Art History

University of California, Davis
Completed: December 2018

RESEARCH EXPERIENCE

Postdoctoral Fellow – Food for Health Equity Lab, Department of Epidemiology & Population Health, Stanford University School of Medicine 09/2023 - Current

- Provide on-going project support for multiple large scale randomized controlled trials (Adelante, Recipe4Health, Vida Sana y Completa)
- Connect with community partners to develop novel research questions for community-based participatory research
- Co-author grant submissions for new projects in the Food for Health Equity Lab
- Assist with data analysis and interpretation of findings; publish peer-reviewed manuscripts from on-going research projects
- Collect preliminary data for upcoming K-01 Award submission through the NIH

Graduate Student Researcher – Aggie Compass Basic Needs Resource Center, University of California, Davis 07/2022 – 06/2023

- Supervise the Global Food Initiative Fellowship
- Conduct qualitative and quantitative research pertaining to basic needs
- Oversee the Fruit and Veggie Up! Program, which provides free produce to undergraduate and graduate students
- Complete quarterly basic needs report to be sent to UC Office of the President
- Attend UC-wide basic needs meeting to improve data collection efforts and collaborate with other UC campuses

Graduate Student Researcher – Steinberg and Scherr Labs, Department of Nutrition, University of California, Davis 09/2019 – 06/2023

- Designed and implemented a clinical human nutrition research study to analyze the efficacy of on-campus food access resources on student health and diet-related biomarkers
- Created, developed, and organized materials, submitted IRB, and ordered study supplies prior to project commencement
- Perform blood draws and record anthropometric data on participants
- Conduct 24-hour NDSR dietary recalls
- Supervise and direct large intern team to assist with data collection, data entry, and clinic visits

Community Education Specialist – Scherr Lab, Department of Nutrition, University of California, Davis 01/2019 – 09/2019

- Developed inquiry-based nutrition education programs for SNAP-eligible schools
- Provided on-going support for existing nutrition education programs
- Conducted data collection for counties participating in the Shaping Healthy Choices Program

- Facilitated curriculum implementation in elementary and high-school aged youth
- Created state-wide curricula standards resources for all CalFresh eligible curricula

Undergraduate Student Researcher – Zidenberg-Cherr/Scherr Lab, Department of Nutrition, University of California, Davis 01/2017 – 01/2019

- Developed an inquiry-based, experiential outdoor nutrition education curriculum for upper elementary school children
- Conduct pre and post data collection for counties implementing the curriculum
- Input and analyze data using Excel and Qualtrics to identify student improvement with curriculum completion
- Develop in-person and online training modules for nutrition educators
- Implementing agriculture and food systems curriculum for adolescents (Teen’s CAN) in Pittsburg, California

Undergraduate Student Researcher – Gaikwad Lab, Department of Nutrition and Environmental Toxicology, University of California, Davis 03/2016 – 12/2016

- Assisted Dr. Nilesh Gaikad and international post-doctoral students in extracting DNA from animal models
- Utilized biochemical techniques such as PCR, Western Blotting and spectroscopy
- Collected samples from animal models and participated in the sacrifice and organ extraction
- Organized lab materials and inputted inventory requests
- Performed in-depth background analysis and review of medical publications

CLINICAL EXPERIENCE

Research Phlebotomist – University of California, Davis 1/2020 – present

- Perform blood draws on subjects actively participating in nutrition-related research studies
- Process blood samples for proper storage
- Interact with participants and explained the procedure using professional communication

Surgical Shadowing – San Borja Arriarán Hospital, Santiago, Chile 12/2016 – 01/2017

- Observed cardiothoracic procedures, including the implant of a pacemaker and an atrial fibrillation ablation
- Recorded the procedures in detail on video for the surgeon to re-watch and learn from
- Facilitated communication regarding the surgical procedures and direct patient care in Spanish

Gastrointestinal Intern – UC Davis Medical Center, Sacramento, California 01/2016 – 03/2016

- Assisted with patient pre-op: admitting the patient, taking vitals, and increasing the comfortability of the patient
- Shadowed procedures, learned about the instruments used, and proper method of biopsy extraction
- Assisted with patient post-op: calmly waking up the patient, retaking vitals, and providing refreshments

TEACHING EXPERIENCE

Lecturer for Community Nutrition (NST 166/266) – Department of Nutritional Sciences & Toxicology, University of California, Berkeley 09/2023 – Current

- Develop engaging lectures on global and domestic topics related to community nutrition (health policy, safety net programs, food insecurity, etc.)
- Administer scaffolded content and assessments for a dual level Master’s and undergraduate merged course
- Provide constructive learning opportunities on assignments to gauge student learning and where additional supports are needed on high-level content

Head Teaching Assistant for Nutrition 10 - Department of Nutrition, University of California, Davis 12/2021 – 06/2023

- Supervise ten graduate teaching assistants each academic term
- Provide critical feedback on lectures and exams to be utilized in the in-person and virtual implementation of the course, with over 1,200 students per quarter
- Helping with Universal Design for Learning to adapt the course for the UC Davis SEEDs Scholars

Head Teaching Assistant for Nutrition 11 - Department of Nutrition, University of California, Davis 04/2021 – 06/2023

- Supervise five graduate teaching assistants each academic term

- Develop lectures and course materials to be utilized in ten course sections, each containing 25 undergraduate students
- Hold weekly office hours to assist students in reading comprehension, writing technique, and learning accommodations

Teaching Assistant for Nutrition 10 - *Department of Nutrition, University of California, Davis* 09/2020 – 06/2023

- Assist professor with over 1,000 students in the cross-campus course Nutrition 10 Discoveries and Concepts in Nutrition
- Grade and provide feedback on student quizzes, test, and assignments
- Manage a team of undergraduate interns to post nutrition-related social media content

Teaching Assistant for Nutrition 11 - *Department of Nutrition, University of California, Davis* 08/2020 – 06/2023

- Instructor of two course sections of Nutrition 11 Current Topics and Controversies in Nutrition with a total of 50 undergraduate students from various majors
- Support group discussion and critical thinking surrounding controversial topics in nutrition in a respectful environment
- Provide constructive feedback and evaluated student performance on written and verbal assignments

Lead Educator for Teens CAN pilot – *Department of Nutrition, University of California, Davis* 08/2018 – 08/2019

- Facilitate Teens CAN food literacy curriculum to high-school aged youth in Pittsburg, CA and Yuba City, CA
- Create an engaging environment for youth to explore various topics surrounding cooking, agriculture, and nutrition
- Assist with edits to improve curriculum based off of youth feedback

Undergraduate Nutrition Tutor – Nutrition 10: Discoveries and Concepts in Nutrition, *Department of Nutrition, University of California, Davis* 01/2016 – 06/2016

- Proctored exams to uphold the Davis Code of Conduct
- Graded over 1,000 student exams, composed of multiple choice and short answer questions
- Held office hours to assist students by answering questions regarding grading and upcoming exams or projects

ACADEMIC OUTREARCH AND SERVICE

Invited Guest Speaker 2019 – 2023

- Plenary Lecture, UC Davis Research Symposium
- Nutrition 10 – Discoveries and Concepts in Nutrition
- Nutrition 129 – Journalism in Nutrition
- Science and Society 390 – Teaching Methods in Science and Society
- Veggie Meter Forum
- NorCal Symposium on Climate, Healthy, and Equity

UC Davis SEED Scholars Program 2020 – 2023

- Assisted individuals with intellectual disabilities navigate the UC Davis campus, including internship and work opportunities
- Serve as the head teaching assistant for the first fully inclusive college course at UC Davis

Team Davis

- Presented on curriculum development and experiential learning to undergraduate nutrition students at UC Davis who were creating a nutrition curriculum for individuals with physical and intellectual disabilities 2019 – 2022

Nuts and Berries Conference – *University of California, Davis and USDA* 2022

- Organized conference logistics, including registration, travel, dining, etc.
- Served as a panel mediator for the “Q & A”
- In progress: writing a manuscript on the conference brief

NorCal Symposium on Climate, Health, and Equity - *University of California, Davis; University of California, San Francisco; Stanford University* 2021, 2022

- Planned and organized the *Food Systems* portion of the Symposium
- Acquired and communicated directly with the Keynote speaker, Dr. David Katz

- Presented on my research regarding food insecurity in the college student population

Universities Fighting World Hunger – University of California, Davis

2021

- Managed the judging and submission process for over 40 poster presenters for the global conference
- Communicated and provided technical assistance needed to help presenters from around the world prepare their presentations
- Experienced with navigating the Oxford Abstract Tool

COMMUNITY OUTREARCH AND SERVICE

President of the Graduate Student Association – Graduate Student Association University of California Davis 06/2022 – 07/2023

- Lead monthly meetings across all graduate groups to support and advocate for the UC Davis graduate student population
- Participate in weekly meetings with the Dean of Graduate Studies and other affiliate Deans to serve as the liaison between the student body and the campus

Director of Graduate Student Food Pantry – Graduate Student Association University of California Davis 10/2020 – 07/2022

- Manage day to day operations for the graduate student food pantry
- Maintain partnerships with on-campus food distributors and local groceries to provide graduate students with fresh produce and non-perishable items

Director of Legislative Affairs – Graduate Student Association University of California Davis 10/2019 – 10/2020

- Collaborated with national advocacy groups to promote graduate student rights and welfare
- Tracked local, state, and federal legislature pertinent to graduate students and created written summaries to be used in advocacy meetings with legislators

Graduate Student Volunteer Food Pantry

- Assisted graduate students at the University of California, Davis with navigating the food pantry in a confidential and comfortable environment 2020 – 2022

CERTIFICATIONS

Certified Phlebotomy Technician (CPT-1) Expires 12/2023

Spinning Instructor Certification Expires 10/2024

IRB Collaborative Institutional Training Initiative (CITI) Expires 12/2025

AWARDS AND HONORS

Propel Fellowship, Stanford University School of Medicine 2023

Carpenter Travel Award 2023

Outstanding Graduate Student Teaching Award 2023

Mar Dissertation Fellowship Award 2023

Henry A. Jastro Research Award 2020, 2021, 2022

Center for Nutrition and Wellness, Campbell Soup Company Nutrition Research Scholarship 2022

Fredric Hill Research Award 2021

Global Food Initiative Ambassador 2020, 2021

Barbara Schneeman Research and Travel Award 2020

Global Food Initiative Fellowship	2019, 2020
William Weir Summer Research Award	2018
Order of Omega Honor Society	2018
Dean's List University of California, Davis	2017, 2018

AFFILIATIONS AND MEMBERSHIPS

Postdoctoral Scholar Representative Carotenoid and Retinoid Research Interest Group American Society of Nutrition	10/2020 – Present
Advisory Board Member Developing an inclusive education program at UC Davis SEED Scholars Program, University of California, Davis	07/2020 – Present
Student Member American Society for Nutrition	07/2019 – Present

PUBLICATIONS

Radtke MD, Steinberg FM, Scherr RE. Methods for Assessing Health Outcomes Associated with Food Insecurity in the US College Student Population: A Narrative Review. *Advances in Nutrition* 2023. In Press. doi:<https://doi.org/10.1016/j.advnut.2023.10.004>

Radtke MD, Zuelch ML, Holt RR, Basu A, Burton-Freeman B, Ferruzzi MG, Li Z, Shay NF, Shukitt-Hale B, Keen CL, Steinberg FM, Hackman RM. Perspective: Challenges and Future Directions in Clinical Research with Nuts and Berries. *Advances in Nutrition* 2023;14(5):1005-1028. doi: <https://doi.org/10.1016/j.advnut.2023.07.010>

Radtke MD, Gerdes MA, Jones AJ, Singh-Khaira K, Scherr RE. RE-AIM Analysis of Progress through Partnership: Adapting the Shaping Healthy Choices Program with CalFresh Health Living, University of California, Davis. *California Agriculture* 2023; Pre-print prior to publication. Accepted April 2023.

Radtke MD, Chodur GM, Bissell MCS, Kemp L, Medici V, Steinberg FM, Scherr RS. Validation of Diet ID™ in Predicting Nutrient Intake Compared to NDSR Dietary Recalls and Skin Carotenoid Scores in a Diverse Population of College Students. *Nutrients* 2023; 15(2): 409. <https://doi.org/10.3390/nu15020409>

Landry MJ, Ruiz LD, Gibbs K, **Radtke MD**, Lerman J, Vargas AJ. Early Life Nutrition Research Supported by the U.S. National Institutes of Health from 2018 – 2020. *Advances in Nutrition* 2022; 13(5): 1395 – 1401. <https://doi.org/10.1093/advances/nmac044>

Radtke MD, Poe M, Stookey J, Jilcott Pitts S, Moran NE, Landry MJ, Rubin LP, Stage VC, Scherr RE. Recommendations for the Use of the Veggie Meter for Spectroscopy-based Skin Carotenoid Measurements in the Research Setting. *Current Developments in Nutrition* 2021; 5(8). doi: <https://doi.org/10.1093/cdn/nzab104>

Ruiz LD, **Radtke MD**, Scherr RE. Development and Pilot Testing of a Food Literacy Curriculum for High School-Aged Adolescents. *Nutrients* 2021; 13(1): 1532 – 1545. <https://doi.org/10.3390/nu13051532>

Radtke MD, Jilcott Pitts SB, Jahns L, Firnhaber GC, Loofbourrow BM, Zeng A, Scherr RE. Criterion-related Validity of Spectroscopy-based Skin Carotenoid Measurements as a Proxy for Fruit and Vegetable Intake: A Systematic Review. *Advances in Nutrition* 2020; 11(5):1282-1299. doi: <https://doi.org/10.1093/advances/nmaa054>.

LIMITED DISTRIBUTION PUBLICATIONS

Ruiz LD, **Radtke MD**, Howe L, Holland D, Scherr RE. Teens CAN: Comprehensive Food Literacy in Cooking, Agriculture, and Nutrition. UC Davis Center for Nutrition in Schools, Department of Nutrition. Published August 2021. Available at: <https://cns.ucdavis.edu/resources/classroom/teens-can-curriculum>

Nutrition and Health Info Sheet: Prebiotics and Probiotics for Consumers. UC Davis Center for Nutrition in Schools, Department of Nutrition. Published October 2018. Available at <http://nutrition.ucdavis.edu/info/infosheets>

Nutrition and Health Info Sheet: Intermittent Fasting for Health Professionals. UC Davis Center for Nutrition in Schools, Department of Nutrition. Published January 2020. Available at <http://nutrition.ucdavis.edu/info/infosheets>

PUBLICATIONS IN PREPARATION

Radtke MD, Chodur GM, Kemp LC, Steinberg FM, Scherr RE. Interrelationship between Executive Function, Food Insecurity, and Diet Quality in a Diverse Population of College. To be submitted to the Journal of Nutritional Neuroscience by December 2023.

Radtke MD, Chodur GM, Kemp LC, Medici V, Steinberg FM, Scherr RE. Impact of On-Campus Food Access Resource Usage on Diet Quality and Diet-related Biomarkers. To be submitted to American Journal of Clinical Nutrition by February 2024.

ABSTRACTS AND PRESENTATIONS

Radtke MD, Chodur GM, Kemp L, Medici V, Steinberg FM, Scherr RS. The Impact of On-Campus Food Access Resources on Diet Quality and Diet-related Biomarkers in the Plasma and Skin. Submitted to American Society for Nutrition Annual Research Conference, Boston, MA, July 2023.

Radtke MD, Chodur GM, Bissell MCS, Kemp L, Medici V, Steinberg FM, Scherr RS. Validation of Diet ID™ in Predicting Nutrient Intake Compared to NDSR Dietary Recalls and Skin Carotenoid Scores in a Diverse Population of College Students. Submitted to American Public Health Association Annual Research Conference, Boston, MA, November 2022.

Landry MJ, Ruiz LD, Gibbs K, **Radtke MD**, Lerman J, Vargas AJ. Early Life Nutrition Research Supported by the U.S. National Institutes of Health from 2018 – 2020. Submitted to American Society for Nutrition Annual Research Conference, Seattle, WA, June 2022.

Radtke MD, Jilcott Pitts SB, Jahns L, Firnhaber GC, Loofbourrow BM, Zeng A, Scherr RE. Examining the Validity of Spectroscopy-based Skin Carotenoid Measurements as a Proxy for Fruit and Vegetable Consumption. Submitted to American Society for Nutrition Annual Research Conference, Seattle, WA, June 2020.

Jones AM, **Radtke MD**, Chodur GC, Scherr RE. Assessing the Relationship Between Nutrition Knowledge and Skin Carotenoids in University Students. Submitted to American Society for Nutrition Annual Research Conference, Seattle, WA, June 2020.

Radtke MD, Chodur GC, Jones AM, Kemp L, Scherr RE. Evaluating the Efficacy of On-campus Food Access Programs through the Assessment of Changes in Diet-related Biomarkers in College Students. Presented at the California Higher Education Sustainability Conference, July 2020.

Chodur GC, **Radtke MD**, Scherr RE, Kemp L. Use of a Conceptual Model to Guide Program Evaluation of Campus Intervention Programs That Address Basic Needs Insecurities. Submitted to American Public Health Association Annual Research Conference, San Francisco, CA, September 2020.

ADHOC PEER REVIEW

Journal of Hunger and Environmental Nutrition	2023
Journal of American College Health	2023
Journal of Nutritional Science	2023