

# Kristen L. James

Graduate Group in Nutritional Biology  
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## Education

- 2017 - Present      **PhD Nutritional Biology, Emphasis in Genetics**  
University of California, Davis  
Graduate Group in Nutritional Biology  
Mentor: Brian J. Bennett
- 2012 - 2016      **BS Biochemistry**  
Seattle University  
Honors, Cum Laude  
College of Science and Engineering Dean's List  
Division 1 Tennis Player, 2 Year Team Captain

## Professional and Research Experience

- 2018 - Present      **Graduate Student Researcher**  
USDA-ARS Western Human Nutrition Research Center, Davis, CA
- 2019 - 2020      **Community Education Specialist**  
CalFresh Healthy Living University of California, Davis, CA

## Publications

### Published

- **Kristen L. James**, Erik R. Gertz, Eduardo Cervantes, Ellen L. Bonnel, Charles B. Stephensen, Mary E. Kable, and Brian J. Bennett (2022). Diet, fecal microbiome, and trimethylamine n-oxide in a cohort of metabolically healthy United States adults. *Nutrients*. 14(7), <https://doi.org/10.3390/nu14071376>
- Excel Que\*, **Kristen L James\***, Alisha R Coffey, Tangi L Smallwood, Jody Albright, M Nazmul Huda, Daniel Pomp, Praveen Sethupathy, Brian J Bennett (2021). Genetic architecture modulates diet-induced hepatic mRNA and miRNA expression profiles in Diversity Outbred mice. *Genetics*. 218(3), <https://doi.org/10.1093/genetics/iyab068>

\* These authors contributed equally to this work.

### Limited Distribution

- Protein Requirements Nutrition and Health Info Sheet (Professional) 2020. Available at: <https://nutrition.ucdavis.edu/outreach/nutr-health-info-sheets/pro-protein-requirements>
- Ketogenic Diet Nutrition and Health Info Sheet (Professional) 2020. Available at: <https://nutrition.ucdavis.edu/outreach/nutr-health-info-sheets/pro-ketogenic-diet>

## Abstracts and Presentations

- TMAO response to a high-fat high-sugar meal challenge in generally healthy United States adults (Poster). American Society of Nutrition (2022).
- Diet, fecal microbiome, and trimethylamine n-oxide in a cohort of metabolically healthy United States adults (Presentation). GGNB New Student Recruitment (2022).
- Assessment of FMO3 SNPs in relation to TMAO in generally healthy United States adults (Presentation). American Society of Nutrition (2021).

- Determining the genetic regulation of trimethylamine N-oxide (TMAO) in female Diversity Outbred mice (Poster). FASEB, The Folic Acid, Vitamin B12, and One-Carbon Metabolism Conference (2020).
- Systems genetic studies of TMAO regulation and atherosclerosis (Presentation). GGNB New Student Recruitment (2020).
- Trimethylamine-N-Oxide (TMAO) is not associated with average daily intake of red meat or TMAO-precursor foods in a generally healthy population (Poster). American Society of Nutrition (2020).
- Utilization of a high-choline diet elicits genetic loci associated with TMAO (Presentation). GGNB Research Symposium (2019).
- Habitual beef consumption, plasma TMAO, and risk factors for Cardiovascular Disease (Poster). Aligning the Food System for Improved Nutrition in Animal Sourced Foods Conference (2019).
- Utilization of a high-choline diet elicits genetic loci associated with TMAO (Presentation). GGNB Research Symposium (2019).

## **Fellowships and Grants**

- Mar Family Dissertation Award (2021-2022).
- Leaders for the Future Fellow (2021-2022).
- Kirvin Knox Nutritional Biology Fellowship (2020).
- Henry A. Jastro Scholarship (2018-2019, 2019-2020).
- GGNB Fellowship (2017-2018).

## **Teaching**

- Discoveries and Concepts in Nutrition; Teaching Assistant. University of California, Davis (2019-2020).

## **Mentoring**

- Korrie Tugal. Undergraduate student intern: Trained and mentored Korrie who assisted in mouse work and experimental protocols (2021-2022).
- Nola Carter. Nutritional Biology Graduate Admissions Pathways Program participant: Mentored Nola with weekly meetings, feedback on her research project, and exposure to graduate school (summer 2020).

## **Academic Service**

- GGNB Student Advisory Committee: President (2020-2021), Vice-President (2019-2020), Outreach Coordinator (2018-2019).
- UC Davis Graduate Student Association: Representative (2018-2019, 2019-2020), Alternate Representative (2017-2018).

## **Professional Affiliations**

- American Society for Nutrition (ASN)

## **References**

- Brian J. Bennett (Doctoral mentor)  
Western Human Nutrition Research Center, USDA-ARS  
Obesity and Metabolism Research Leader  
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