

Thabat Dahdoul

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PROFESSIONAL EXPERIENCES

Graduate Student Researcher

Fall 2021 – Present

Statistics department, UCI, CA

- Independently studied with Dr. Daniel Gillen courses on clinical trials and survival analysis.
- Worked on a meta-analysis on sex differences in mild-moderate Alzheimer's disease clinical trials.
- Attended weekly meetings of Alzheimer's Disease (AD) research lab with Dr. Gillen and Dr. Joshua Grill, where lab members discussed the progress of ongoing research projects.

Teacher Assistant/ Reader

Fall 2019 – Spring 2023

Statistics department, UCI, CA

- Developed and planned weekly workshops and study groups for students in statistics courses.
- Held office hours to provide help for students outside of the classroom.
- Proctored exams and graded exams.

Clinical Trials Reading Group

July 2020 - March 2021

Statistics department, UCI, CA, [Advisor: Dr. Daniel Gillen]

- Participated in weekly discussions with Dr. Gillen and one Statistics graduate student, based on readings from "Fundamentals of Clinical Trials" by Friedman, et al. (2015, 5th ed.).
- Discussed study design in clinical trials including the different phases, ethical issues, randomization strategies, blinding, and participant recruitment and retention.
- Analytically and via simulation investigated the impact of confounding on bias and variance, the role of stratification vs. covariate adjustment, and sample size determination.
- Reviewed seminal papers from the group sequential clinical trials literature, including Armitage, McPherson & Rowe (1969), Pocock (1977), and O'Brien & Fleming (1979).

Teacher Assistant/ Reader

Summer 2021

UCI California state summer school for mathematics and science COSMOS, UCI, CA

- Led daily workshops for talented high school students in the statistics cluster.
- Mentored students on developing statistical analysis on their specific project.

Supplemental Instruction (SI) Leader

Fall 2015 – Spring 2017

Math Department SI; CSUF, CA

- Developed and planned bi-weekly workshops and study groups for students in calculus courses.
- Designed engaging activities for students to learn mathematics actively by practicing different problems.
- Provided explanations for challenging concepts in math.

Facilitator

Fall 2016

Math Circle; CSUF, CA

- Led a workshop for 40 junior high students to work on various mathematical exercises.
- Facilitated a preparation workshop for the American Mathematical Competition (AMC).

Tutor

Fall 2015 – Spring 2016

Mathematics Tutoring Center; CSUF, CA

- Attended the Tutoring Center biweekly to provide tutoring service for students.
- Provided explanations for challenging concepts in calculus, linear algebra, statistics, and probability.

ADVANCED TRAINING PROGRAMS

Graduate Readiness and Access in Mathematics (GRAM) Scholar

Summer 2016 – May 2018

GRAM; CSUF, CA

- Conducted geological research with statisticians Dr. Kevin Nichols and Dr. Reza Ramezan on ~California's drought, using various statistical analyses to relate soil age to historical hydroclimate.
- Participated in various career-advancement, public speaking, and programming workshops.
- Took four courses in research seminars and problem-solving skills.
- Served as a peer mentor for subsequent cohorts.

Research Fellow

Summer 2017

Research Training Group in Mathematical Sciences; Duke University, NC

- Worked with Dr. Michael Reed on study entitled "The Differences of One-Carbon Metabolism Between Men and Women of Childbearing Age."
- Used Matlab to validate physiological models using published experimental data.

Research Fellow

Summer 2016

Biostatistics & Computational Biology; Harvard T.H. Chan School of Public Health, MA

- Undertook six-weeks of intensive coursework in graduate introduction to biostatistics, epidemiology, programming workshops, and attended various lectures covering bio statistical research.
- Analyzed health-related quality of life data for a research study on bone marrow transplantation for adolescents and young adults with sickle cell disease led by Dr. Donna Neuberg; delivered the final presentation.
- Participated in workshops for professional development, diversity and inclusion, and networking skills.

Participant

Summer 2015

Preparing Undergraduates through Mentoring toward PhDs; California State Polytechnic University, Pomona

- Joined the Math Alliance as a scholar and attended the Field of Dreams conference.
- Learned to think critically about mathematics and to write well-conceived proofs.

LEADERSHIP EXPERIENCES

BOLD Scholar

Spring 2017 – Present

BOLD Women's Leadership Network; CSUF, CA

- Attend weekly leadership training.
- Participate in weekly cultural competency and diversity discussions led by the faculty mentor.
- Lead on-campus transformation projects and created "As Told by BOLD" podcast that advocates social equity.
- Create and facilitate leadership activities for the Male Success Initiative conference for Men of Color.
- Participate in an international immersion program in Peru promoting empowerment for women.

DECADE Representative

Fall 2019 – Spring 2022

Diverse education community and doctoral experience UCI, CA

- Collaborate with faculty mentors to put on a professionalization workshops and community building events that focus on equity and inclusion.
- Created a safe space for students to share any experiences of diversity/inclusion misconducts.

Co-Chair

Fall 2015 – Fall 2016

Center for Insurance Studies Leadership Program; CSUF, CA

- Led a project that surveyed 1,000 students about their awareness of the insurance industry and risk management.
- Presented findings at an industry conference and was recognized as the lead researcher.
- Worked with faculty to devise an implementation plan for our project and led a group of students accordingly.

EDUCATION

Ph.D. Candidate in Statistics; Expected, June 2026

- University of California, Irvine; Irvine, CA

Master of Science, Statistics

- University of California, Irvine; Irvine, CA

Bachelor of Arts, Mathematics; Concentration in Statistics

- California State University, Fullerton; Fullerton, CA
- Honors: Summa Cum Laude

PUBLICATIONS

Sadre-Marandi, F., **Dahdoul, T.**, Reed, M. C., & Nijhout, H. F. (2018). Sex differences in hepatic one-carbon metabolism. *BMC systems biology*, *12*(1), 1-13.

Krishnamurti, L., Neuberg, D.S., Sullivan, K.M., Kamani, N.R., Abraham, A., Campigotto, F., Zhang, W., **Dahdoul, T.**, De Castro, L., Parikh, S. and Bakshi, N., 2019. Bone marrow transplantation for adolescents and young adults with sickle cell disease: Results of a prospective multicenter pilot study. *American journal of hematology*, *94*(4), pp.446-454.

Assessing Temporal Uncertainties for Hydro-climatic Feature Comparison. (Preprint). Sadre-Marandi F., **Dahdoul T.**, Reed MC., Nijhout HF. Sex differences in hepatic one-carbon metabolism. *BMC systems biology*. 2018 Dec;12(1):1-3

PRESENTATIONS

- Alzheimer's Associations International Conference (Talk), San Diego, CA, 08/2022
- Capstone Conference (Talk and Poster); Mathematical Biosciences Institute, Columbus, OH – 08/ 17
- Joint Statistical Meetings conference (Talk); Baltimore, MD – 07/17
- Pipeline into Biostatistics Symposium (Talk); Dana Farber Cancer Institute, Boston, MA – July 17
- GRAM Culminating Ceremony (Talk); CSUF, CA – 05/17
- Mathematical Association of America, Southern California; CSUN – 04/17
- Student Creative Activities and Research Day (SCAR) (Poster); CSUF, CA – 04/17
- Pipeline into Biostatistics Symposium (Talk); Dana Farber Cancer Institute, Boston, MA – 07/16

CONFERENCES

- Alzheimer's Associations International Conference, San Diego, CA, 08/2022
- 2020 Women on Boards Los Angeles/Orange County Luncheon; Los Angeles, CA – 11/17
- Joint Statistical Meetings; Baltimore, MD – 07/17
- Southern California Women in Mathematics Symposium; University of Southern California, CA – 02/17
- Field of Dreams Conference; St. Louis, MO – 11/16
- SACNAS; Convention Center, Long Beach, CA – 10/16
- Excess & Surplus Lines Day; CSUF, CA – 04/16
- The Extreme Risk Takers XIII, NAPSLO Symposium; Chicago, IL – 03/16
- Field of Dreams Conference; Birmingham, AL – 11/15
- 1114th American Mathematical Society Meeting; CSUF, CA – 10/15
- Actuary Forum; CSUF, CA – 05/15
- California Actuarial Student Conference; University of California, Santa Barbara; CA – 04/15

SCHOLARSHIPS

- Academic Achievement Award
- Special Recognition for Undergraduate Research
- Graduate Readiness and Access in Mathematics (GRAM)
- BOLD Women's Leadership Network
- Russell V. and Betty L. Benson scholarship for Undergraduate Mathematics Students
- SACNAS travel scholarship
- Field of Dreams travel scholarship (2015, 2016, 2017)
- United States Liability Insurance Student Leadership Award
- Center for Insurance Studies Actuarial Studies Scholarship
- Wayne Partee Insurance Scholarship

AFFILIATIONS

- American Statistics Association
- The Facilitated Graduate Applications Process (F-GAP)
- National Society for Collegiate Scholars (NSCS)
- UCI statistics department, Statistical Methods and Research Training (SMART)
- UCI Grillen Lab
- The National Alliance for Doctoral Studies in the Mathematical Sciences
- Society for Advancement of Chicanos/ Hispanics and Native Americans in Science (SACNAS)

COMPUTER AND LANGUAGE SKILLS

- Versed in C++, R, Matlab, Mathematica, LaTeX, GitHub
- Fluent in written and spoken Arabic

RELATIVE COURSE WORK

Statistical Theory

- Probability Theory, Statistical Inference, and Theory of Linear Models (12 units)
- Measure Theoretic Probability and Statistics (4 units)

Methods with Applications

- Statistical Methods for Linear Models (4 units)
- Statistical Methods for Independent Data [GLMs] (4 units)
- Statistical Methods for Correlated and Longitudinal Data [GEE & GLMMs] (4 units)
- Introduction to Bayesian Data Analysis (4 units)
- Bayesian Statistical Analysis (4 units)
- Multivariate Statistical Methods (4 units)
- Statistical Computing and Optimization Methods (4 units)