

K. ROBERT CHICKERING

1 Shields Ave, Davis, CA 95616 ◊ MSB 3202

krchicke@ucdavis.edu

SUMMARY

I am interested in partial differential equations and analysis. In particular I am interested in the analysis of fluid systems, nonlinear phenomena, and chaotic PDE.

EDUCATION

University of California, Davis 2021 - 2024
Ph.D. in Applied Mathematics

University of California, Davis 2019 - 2021
M.S. in Applied Mathematics

University of California, Davis 2017 - 2019
B.S. in Applied Mathematics Minor in Computer Science
Advisor: Professor Tim Lewis

EXPERIENCE

UC Davis Department of Mathematics June 2018 - October 2019
Research Assistant
Advisor: Professor Tim Lewis

Pluribus Networks Summer 2016, Summer 2017
Software Engineering Intern

AWARDS

Mathematics Department Summer Fellowship Summer 2019
Stipend to conduct research over the summer. Advisor: Tim Lewis

Citation for Outstanding Performance June 2019
Awarded by the Mathematics department.

Departmental Citation June 2019
Awarded by the Mathematics department.

UC Davis Outstanding Senior Award in Applied Mathematics May 2019
Awarded to a single student in applied mathematics by the University.

Deans' Honor List

SERVICE

UC Davis Mathematics Reserach Conference January 2020
Lead Organizer

UMAP (Undergraduate Mathematics and Physics Reading Group) April 2019-Present
Co-organizer, speaker

UC Davis Math Circle October 2018 - October 2019
Secretary and Treasurer

TALKS AND PRESENTATIONS

Effect of Elastic Fluids on Cilia Dynamics <i>UC Davis Undergraduate Mathematics Research Conference</i>	October 2019
Measure Theory, Integration, and L^p Spaces <i>Undergraduate Math and Physics Reading Group</i>	April 2019
Mathematical Modeling of Anomalous Electrical Activity in Networks of TSC1- Mutant Neurons in the Thalamus <i>UC Davis Spring Research Conference</i>	April 2019
Fractals and Recursion <i>UC Davis Math Circle</i>	March 2019
LaTeX: A Document Preparation System <i>UC Davis Math Club</i>	February 2019
Spike-Escape Behavior in Electrically Coupled Thalamocortical Relay Cells with TSC1 Gene Deletion <i>UC Davis Undergraduate Mathematics Conference</i>	October 2018

TEACHING

TA: MAT 21B: Integral Calculus <i>Instructor: John Challenor</i>	Fall 2019
TA: MAT 21B: Integral Calculus <i>Instructor: Professor Ben Morris</i>	Fall 2019

RELEVANT COURSEWORK

Mathematics

MAT 118A: Partial Differential Equations I
MAT 118B: Partial Differential Equations II
MAT 025: Analysis I
MAT 125A: Analysis II
MAT 128A: Numerical Analysis I
MAT 141: Euclidean Geometry
MAT 150A: Modern Algebra I
MAT 199: Independent Study
MAT 119A: Nonlinear Dynamics I
MAT 125B: Analysis III
MAT 128C: Numerical Analysis III
MAT 135: Probability
MAT 185A: Complex Analysis
MAT 194: Undergraduate Thesis
MAT 198: Partial Differential Equations Reading Course
MAT 201A: Graduate Analysis I
MAT 207A: Methods of Applied Mathematics I
MAT 218A: Graduate Partial Differential Equations I

Computer Science

ECS 120: Theory of Computation
ECS 140A: Programming Languages I
ECS 154A: Computer Architecture I
ECS 171: Artificial Intelligence