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Nicholas Jon Kappler

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NICK IS A PHD CANDIDATE IN APPLIED MATH WITH BROAD RESEARCH EXPERIENCE. CURRENT PROJECTS INCLUDE INTENSIVE SIMULATIONS THAT APPLY NETWORK SCIENCE, PROBABILITY THEORY, AND STATISTICS TO QUESTIONS IN THEORETICAL ECOLOGY.

MATHEMATICAL PROGRAMMING

MatLab

Mathematica

MS Office

Haskell

AS A RESEARCHER

- Investigated the response of model fishery ecosystems under different exploitation scenarios.
- Studied structural properties of a stochastic model for food webs (paper in progress).
- Analyzed limiting solutions of a PDE with oscillating boundary conditions.
- Contributed to mesh generation code for finite elements simulations in arteries.
- Simulated and analyzed a model of neural plasticity.
- Worked in a team to design and build a golf-aid for hemiplegics.
- Processed experimental cement additives and conducted compression tests.

AS A STUDENT

University of Arizona (2012-Now; GPA = 3.867/4.000)

Graduate Interdisciplinary Program in Applied Mathematics: PhD Candidate; MS in May 2014

Northwestern University (2008-2012; GPA = 3.759/4.000)

McCormick School of Engineering: B.S. cum laude in Applied Mathematics

Course Highlights

Multiple courses in numerical algorithms, mathematical methods, probability, and linear algebra
Theory of Statistics, Algorithms on Graphs and Networks, Engineering Design and Communication, Public Speaking

AS AN EDUCATOR

Graduate Teaching Assistant for University of Arizona Math Department (Fall 2012-Now)

Instructor

Instructed 35 students per semester for 7 semesters in classes from Trigonometry to Biostatistics.
Designed lesson Plans and wrote 2-4 tests for every class.

Tutor

3 hours per week as walk-in tutor for all levels of calculus and statistics

AS A LEADER

Northwestern Community Development Corps Site Leader at Family Focus in Evanston (2010-2011)

Organized and drove volunteers to site; acted as mentor and tutor for at-risk youth

Treasurer for College of Cultural and Community Studies (2009-2010)

Managed a budget of approximately \$5000 for 45 people; served on executive board