

# Laura J. Kettner

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## • EXPERIENCE:

- **Northern Illinois University, DeKalb, IL**, Graduate Teaching Assistant, August 2004-Present
  - Taught Calculus I and Precalculus with full responsibility; prepared and delivered lectures; directed group work; prepared and proctored examinations; assessed students' knowledge; recorded grades.
  - Teaching assistant for Calculus II, Honors Calculus, Calculus for Business and Social Sciences, Precalculus, Core Competency in Mathematics; led small recitation sections; prepared and led review sessions.
- **Argonne National Laboratory, Argonne, IL**, Internship, MCS Division, Summer 2008
  - Developed Perl code to propose corrections to frameshift errors in genome sequencing.
  - Programmed, debugged, and documented Perl code.
  - Collaborated with computer scientists, engineers, and biologists.
- **Joint Mathematics Meetings, New Orleans, LA**, Attendee, January 2011
- **20th International Symposium on Mathematical Programming, Chicago, IL**, Session Chair, Contributed Session, *Well-Posed Vector Optimization Problems*, August 2009
- **ISMAA Annual Meeting, Macomb, IL**, Attendee, March 2007
- **ICTM Regional High School Math Contest**, Volunteer Grader, February 2007, February 2010; Volunteer Proctor, February 2011
- **Joint Mathematics Meetings, Baltimore, MD**, Attendee, January 2003

## • EDUCATION:

- **Northern Illinois University, DeKalb, IL**, August 2011 Expected Ph.D., Mathematical Sciences
  - Disseration Title: *Variational Analysis of Convex Vector Optimization Problems with Applications to Well-Posedness*; Dissertation Advisor: Sien Deng
- **Northern Illinois University, DeKalb, IL**, August 2007 M.S., Mathematical Sciences
  - Graduate Courses Taken:** Nonlinear Programming, Numerical Analysis; Computational Analytic Methods in Science; Topics in Genome Annotation; Variational, Functional, Complex, and Real Analysis; Abstract Algebra.
- **University of Maryland, College Park, MD**, August 2004, B.S., Mathematics

## • ADDITIONAL SKILLS:

- Experience programming in C, Matlab, and Perl.
- Familiarity with UNIX/Linux, Windows, MS Office, HTML, and L<sup>A</sup>T<sub>E</sub>X.
- Excellent communication skills and problem solving abilities.
- Reading and conversational proficiency in German.

## • HONORS AND AWARDS:

- Certificate of Teaching Excellence, Northern Illinois University Department of Mathematical Sciences, 2009
- D. R. Ostberg Award, Northern Illinois University Department of Mathematical Sciences, 2008
- Graduate Certificate of Merit, Northern Illinois University Department of Mathematical Sciences, 2008, 2011

## • PROFESSIONAL MEMBERSHIPS:

- American Mathematical Society, Society for Industrial and Applied Mathematics, Association for Women in Mathematics

## • JOURNAL ARTICLES:

- M. A. Johns, S. Snow, L. J. Kettner, R. Freedman, G. D. Pusch, M. Hou. *Location and correction of frameshift errors by comparison to homologous genes*, (submitted)

## • REFERENCES:

- References available upon request.