

# Brian Powers

## Curriculum Vitae

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### Education

- 2011–2016 **Doctor of Philosophy in Mathematics**, *University of Illinois at Chicago*, Chicago, Illinois.  
Mathematics (Game Theory)
- 2003–2007 **Masters of Science in Mathematics**, *Fairfield University*, Fairfield, Connecticut.  
Financial Mathematics
- 1999–2003 **Bachelor of Arts in Mathematics and Computer Science**, *Tufts University*, Medford, Massachusetts.  
Graduated *Cum Laude*

### Ph.D. Thesis

- title *An Analysis of Multi-Issue Final-Offer Arbitration*
- supervisor T.E.S. Raghavan
- description An extension of Final Offer Arbitration to the multivariate problem settings and an exploration of the various methods of arbitrator decision-making.

### Vocational Experience

- 2019–Present **Instructor**, *Arizona State University*, Tempe, AZ.  
Mathematics Instructor in the Sciences and Mathematics department in the College of Integrative Sciences and Arts.
- 2018–Present **Modeling Researcher**, *Ocean Conservancy*, Washington, DC.  
Contributing to the POSEIDON agent-based model of ocean life and fisheries.
- 2016–Present **Online Adjunct Instructor**, *Southern New Hampshire University*, Manchester, New Hampshire.  
Facilitating and teaching online courses in undergraduate statistics and mathematics.
- 2017–2019 **Online Adjunct Instructor**, *Stratford University*, Falls Church, VA.  
Teaching online courses in undergraduate statistics and mathematics.
- 2016–2019 **Research Postdoctoral Scholar**, *Arizona State University*, Tempe, Arizona.  
Supported by a grant from GOMRI to build a dynamic model of various fish species and fishers in the northern Gulf of Mexico, I am actively involved in the development of the theory and implementation of the model, as well as the analysis of data and output.
- 2017 **Adjunct Instructor**, *Grand Canyon University*, Phoenix, Arizona.  
Taught Quantitative Analytics for Management, an MBA course and Applied Statistics for Nursing.
- 2011–2016 **Private Tutor**, Chicago, Illinois and Scottsdale, Arizona.  
Worked with over fifty students, accumulating more than 1000 hours of tutoring; students ranged from elementary school through graduate level; topics ranged from Algebra and Calculus to Applied Statistics, Complex Analysis and Excel

- 2011–2016 **Lecturer, Teaching Assistant and Tutor**, *University of Illinois at Chicago*, Chicago, Illinois.  
Lectured Applied Statistical Methods in Spring 2015; Taught weekly discussion sessions; graded homework, quizzes and exams; maintained personal course webpages; worked weekly at the Mathematics Learning Center with students in many subjects of mathematics and statistics
- 2015 **Adjunct Lecturer**, *Northwestern College*, Chicago, Illinois.  
Typical lecturer duties for an introductory mathematics course
- 2013 **Adjunct Lecturer**, *Moraine Valley Community College*, Palos Hills, Illinois.  
Planned all course material for a summer Finite Math course; gave lectures, graded homework, quizzes and exams
- 2011 **Mathematics Tutor**, *Katonah Tutoring Club*, Katonah, New York.  
Worked one-on-one and in group sessions with students aged 11 through 17
- 2008–2010 **Treasury Analyst**, *Bahá'í World Centre*, Haifa, Israel.  
Served as the primary banking relationship manager; performed cash management, forecasting and analysis; performed account reconciliations and accounting
- 2004–2008 **Loan Administrator and Business Analyst**, *UBS Investment Bank*, Stamford, Connecticut.  
Maintained a portion of the loan trading portfolio; participated in detailed analysis of the Commercial Lending Business at UBS; gathered user requirements for a strategic loan platform

## Consulting

- 2017-Present **Statistics Consultant**, *Bahá'í World Centre*, Haifa, Israel.

## Service

- 2018 **APR Committee**, *Stratford University*, Falls Church, Virginia.  
Redesigned the Introductory Statistics course and participated in committee activities to strengthen the academic program in general.

## Publications

Yi Huang, Brian Powers, and Lev Reyzin. Training-time optimization of a budgeted booster. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence, IJCAI 2015, Buenos Aires, Argentina, July 2015*.

Jeremy Kun, Brian Powers, and Lev Reyzin. Anti-coordination games and stable graph colorings. In *Algorithmic Game Theory*, pages 122–133. Springer Berlin Heidelberg, 2013.

Brian Powers. An analysis of dual-issue final-offer arbitration. *International Journal of Game Theory*, pages 1–28, 2018.

Brian Powers, Michalis Smyrnakis, and Hamidou Tembine. Empathy in bimatrix games. *arXiv preprint arXiv:1708.01910*, 2017.

Brian R Powers. Dual-issue final-offer arbitration: Invariance of pure optimal strategies under  $l_p$  metrics. *International Game Theory Review (IGTR)*, 21(04):1–27, 2019.

## Languages

English	Fluent	<i>Mother tongue</i>
Spanish	Proficient	<i>Conversational</i>

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## Computer skills

Languages	Java, C++, AWK, Visual Basic, JavaScript, PHP, MySQL	Design	TeX, HTML, CSS
Office	Word, Excel, etc.	Graphics	Illustrator/Inkscape, Photoshop/GIMP
Statistical	R, SAS, SPSS	Instructional	Blackboard, Moodle, Canvas

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## Interests

Game Design	I enjoy designing and producing board and card games
Visual Arts	Illustration, stained glass and computer graphics
Web Design	Design and development of personal web projects and sites

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## References

### Research

- T.E.S. Raghavan (UIC)
- Lev Reyzin (UIC)
- Steven Saul (ASU)

### Teaching

- Jane Morgan (SNHU)
- Catherine Hart (ASU)
- Lia Liu (UIC)