

# Brian Powers

## Curriculum Vitae

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### Education

- 2011–2016 **Doctor of Philosophy in Mathematics**, *University of Illinois at Chicago*, Chicago, Illinois.  
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.

### Experience

#### Vocational

- 2016–Present **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.
- 2016–Present **Online Adjunct Instructor**, *Southern New Hampshire University*, Manchester, New Hampshire.  
Facilitated and taught online courses in undergraduate statistics.
- 2015 **Adjunct Lecturer**, *Northwestern College*, Chicago, Illinois.  
Typical lecturer duties for an introductory mathematics course.
- 2015–Present **Content Author**, *albert.io*, Chicago, Illinois.  
Active member of a small team creating calculus problems for an online undergraduate course.
- 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

- 2011–Present **Private Tutor**, Chicago, Illinois.  
Worked with over fifty students, accumulating more than 800 hours of tutoring; students ranged from elementary school through graduate level; topics ranged from Algebra and Calculus to Applied Statistics, Complex Analysis and Excel
- 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
- 2003–2004 **Math Teacher**, *New Fairfield Middle School*, New Fairfield, Connecticut.  
Taught eighth grade math, five classes daily; held a position as a long-term substitute

## 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.

## Languages

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

## 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

## 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



## References

### Research and Teaching

- T.E.S. Raghavan
- Lev Reyzin

### Teaching

- Lia Liu
- Amy Madden