

# Chris Arettines

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## CONTACT INFORMATION

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## EDUCATION

**The CUNY Graduate Center**, New York, NY

Ph.D., Mathematics, 2015  
Specialization in hyperbolic geometry and algorithmic topology

**Stony Brook University**, Stony Brook, NY

B.S. with Honors, Mathematics, 2009

## EXPERIENCE

**Data Scientist, Yodle Inc.** New York, NY

**2016 - present**

- Maintain and improve the algorithmic ad bidding platform using a variety of statistical models and machine learning techniques
- Perform ad hoc data analysis and model building for various departments across the company
- Maintain and develop tools for use across the company to make quantitative predictions and facilitate analysis of internal data
- Develop production-scale data processing pipelines

**Adjunct Professor, City University of New York** New York, NY

**2011 - 2016**

*Department of Mathematics and Statistics, Hunter College*

*Department of Mathematics and Computer Science, John Jay College*

- Subjects taught include calculus, complex analysis and probability
- Communicated mathematical concepts clearly and efficiently
- Developed original course material

**Freelance Consulting**

**2014 - present**

- Performed statistical analyses for social science research
- Constructed mathematical frameworks for solving business problems

**Computational Mathematics Research**

**2009 - present**

- Worked in Java to analyze geometric problems
- Developed and implemented original algorithms using string processing

**Risk Management Intern, National Grid** Hicksville, NY

**2008**

- Monitored derivative positions for hedging purposes
- Developed price models for energy resources using regression analysis on time-series data

## SELECTED AWARDS AND HONORS

**Dissertation Fellowship Award**

**2015**

Selective fellowship for outstanding research in mathematics

**Speaker at the Ahlfors-Bers VI Colloquium at Yale University**

**2015**

Presented original research to a group of leading mathematicians

**Doctoral Student Council Research Award** **2013**  
Met with faculty at Stanford University, University of Maryland, and Galatasaray University to expand knowledge of key research areas

ACADEMIC PUBLICATIONS **The geometry and combinatorics of closed geodesics on hyperbolic surfaces** **2015**  
(Dissertation)

**A combinatorial algorithm for visualizing representatives with minimal self-intersection** (Journal of Knot Theory and its Ramifications, Vol. 24, No. 11) **2015**

LANGUAGE SKILLS **Java, Python,  $\text{\LaTeX}$ , SQL, C++, IDL, R, Javascript, Matlab**