

# Sarah A. Christensen

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## EDUCATION

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### UNIVERSITY OF ILLINOIS

*PhD Student in Computer Science*

Urbana-Champaign, Illinois

August 2016 – Present

- Recipient of the Chirag Foundation Graduate Fellowship
- GRE: 170Q, 170V, 5.0W
- Selected Graduate Coursework: Statistics & Probability; Computational Inference and Machine Learning

### AMHERST COLLEGE

*Bachelor of Arts with Distinction*

Amherst, Massachusetts

September 2009 – May 2013

- Major: Mathematics
- Cumulative GPA: 3.83/4.0; Major GPA: 3.97/4.0
- Member of The Phi Beta Kappa Society; Top 10% of graduating class

## WORK & RESEARCH EXPERIENCE

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### CORNERSTONE RESEARCH

Economic consulting firm that applies advanced financial, economic, and statistical techniques to solve client corporate litigation and regulatory issues

New York, New York

July 2013 – July 2016

*Senior Analyst*

July 2015 – July 2016

- Performed open ended analytical and research tasks, synthesizing the results into intuitive visual exhibits. Guided direction of case team's research, managing junior analysts in data collection and analysis. Example casework includes:
  - Potential \$20 billion class-action antitrust lawsuit over alleged collusion in the credit default swap market
    - Developed an algorithmic approach to quantifying potential damages under various liability scenarios

*Analyst*

July 2013 – June 2015

- Worked closely with case data and documents to structure and execute analytical and research tasks. Consistently provided analytical insights affecting case strategy. Presented results at team and expert meetings. Example casework includes:
  - Pre-announcement period of a proposed \$30 billion telecommunications merger and antitrust project
    - Analyzed a 300+ GB Nielsen dataset, using SAS and Stata, to generate a consumer heterogeneity study and a series of mobile network quality analyses
    - Modeled consumer willingness-to-pay for mobile quality using a discrete choice econometric model

### MASSACHUSETTS GENERAL HOSPITAL

*Research Assistant in the Division of General Medicine*

Boston, Massachusetts

May 2012–August 2012

- Worked with clinicians to analyze the cost-effectiveness of a point-of-care CD4 assay in urban antenatal clinics.
- Interpreted results from a computer-based, state-transition, Monte Carlo simulation model of HIV disease in order to determine economic and clinical outcomes of suggested policy options.

### YALE SCHOOL OF PUBLIC HEALTH

*Research Assistant to Professor Alison Galvani*

New Haven, Connecticut

May 2011–August 2011

- Conducted literature review on reproductive numbers for influenza and performed meta-analysis on  $R_0$  values to address the robustness of modeling predictions of influenza transmission.

## PUBLICATIONS

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- Christensen, S., Molloy, E., Vachaspati, P., Warnow, T. (2017) *Optimal Completion of Incomplete Gene Trees in Polynomial Time using OCTAL*. In: International Workshop on Algorithms for Bioinformatics (WABI).
- Ciaranello AL, Myer L, Kelly K, Christensen S, Daskilewicz K, Doherty K, et al. (2015) *Point-of-Care CD4 Testing to Inform Selection of Antiretroviral Medications in South African Antenatal Clinics: A Cost-Effectiveness Analysis*. PLoS ONE 0(3): e0117751. doi:10.1371/journal.pone.0117751.

## SKILLS & INTERESTS

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- Proficient at using statistical software packages (including R, SAS, and Stata) as well as SQL and Python
- Accomplished figure skater (US Figure Skating Gold Medalist in Senior Freestyle and Senior Moves)