

# Andre E. Haynes

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## Skills

Data Analysis, Statistical Modeling, Machine Learning, NLP, Recommender Systems

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## Work Experience

### Statistics/Machine Learning Consultant,

Mar. - Aug. 2014

*Independent (Waterloo, ON)*

- Worked closely with two startups with machine learning problems at the core of their businesses to achieve rapid prototyping of MVPs through Agile Modeling.
- Directed them on issues involving: optimization, experimental design, building predictive models on biometric data, and designing contextual search engines and recommendation systems for music.

### Lead Data Scientist,

May 2013 - Apr. 2014

*Fides Social Inc. (Kitchener, ON)*

Fides was a social media startup using predictive analytics to provide users with recommendations on improving the engagement of their posts.

- Designed and implemented Fides recommendation system using language models, matrix factorization, entropy estimation and clustering techniques.
- Designed metrics to quantify impact of Fides recommendations on users' engagement.
- Communicated technical details of metrics and recommendation systems to investors.

### Biostatistics Research Assistant,

Jan. - May 2013

*Prof. Cecilia Cotton, Statistics & Actuarial Science Dept. University of Waterloo (Waterloo, ON)*

Research on Cardiac Dysfunction in Childhood Cancer Survivors - a novel simulation study to assess the effectiveness of the present schedule for screening childhood cancer survivors for congestive heart failure (CHF).

- Reviewed literature to determine the most appropriate estimates to parameterize models for simulating the population under study.
  - Designed Markov transition models to capture the dynamics of state changes from no CHF to CHF in the population under study.
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## Education

### Bachelor of Mathematics (Honours), Statistics

*University of Waterloo*

Jun. 2014

- Notable courses in Mathematical Analysis, Measure Theory, Statistical Analysis, Statistical Learning, Stochastic Processes, Generalized Linear Models, Computational Inference, Philosophy of Math, Ethics and Cognitive Science.

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## Selected Projects

### btcpokerstats.com

Nov. 2014 - Feb. 2015

btcpokerstats is an analytics dashboard for players on bitcoin poker sites to track player winnings, rankings and statistics.

- Designed and implemented all frontend, backend, APIs and ETL routines using Wireshark, Python, Django, HTML/CSS/JS and PostgreSQL.
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## Selected Talks & Presentations

- Integrated Information Theory of Consciousness (Graduate Seminar in Cognitive Science, Apr. 2013)
- Introduction to R for Statistical Analysis (University of Waterloo, Dec. 2013)

**References available on request**