Benjamin (Ben) W. Priest

CONTACT
INFORMATION

Graduate Student
Thayer School of Engineering
Dartmouth College
14 Engineering Drive
Hanover, NH 03755 USA

Work: +1-603-646-2274
Fax: +1-603-646-3856
E-mail: benjamin.w.priest.th@dartmouth.edu

RESEARCH
INTERESTS

Streaming and semi-streaming algorithms for large data: streaming algorithms, sketching, machine learning, network analysis, numerical linear algebra, compressed sensing, high performance computing, optimization, complexity, automata, and natural language processing

EDUCATION

Dartmouth College, Hanover, NH, USA 2015-Present

Ph.D., Engineering, Ongoing
- Adviser: Professor George Cybenko
- Area of Study: Sublinear Space Analysis of Massive Graphs

The Ohio State University, Columbus, OH, USA 2007-2011

B.S., Mathematics, *Cum Laude*, June 2011

B.S., Computer and Information Science, *Cum Laude*, June 2011

PROFESSIONAL
EXPERIENCE

MIT Lincoln Laboratory, Lexington, MA, USA

Assistant Research Scientist   **August 2011 to July 2015**
- Cyber Analytics and Decision Systems Group
- Supervisor: Dr. Kevin M. Carter
- Application of machine learning algorithms to network protocol traffic; behavioral analysis for network situational awareness.
- Development of cognitive multi-agent systems to perform high-fidelity traffic generation for cyber range experiments.
- Development of multi-agent simulation platform to evaluate moving target defenses.

Air Force Institute of Technology, Wright-Patterson Air Force Base, OH, USA

Engineering Technician GS-05   **June to September, 2008 & 2009**
- Supervisor: Professor J. Todd McDonald
- Development of obfuscation metrics of combinatorial circuits using abstract interpretation-based software semantic models.

CONFERENCE
PUBLICATIONS

[1]

[2]

[3]

[4]

[5]

[6]

[7]

CONFERENCE POSTERS	[8] Carter, K.M., R. Caceres and B. Priest Characterization of latent social networks discovered through computer network logs. In *Networks in the Social and Information Sciences workshop of the 29th Annual Conference on Neural Information Processing Systems (NIPS 2015)*, Montreal, Canada, December, 2015.
	[9]

[8] Carter, K.M., R. Caceres and B. Priest Characterization of latent social networks discovered through computer network logs. In *Networks in the Social and Information Sciences workshop of the 29th Annual Conference on Neural Information Processing Systems (NIPS 2015)*, Montreal, Canada, December, 2015.

[9]

TEACHING EXPERIENCE

Thayer School of Engineering at **Dartmouth College**, Columbus, OH

Teaching Assistant

- Instructor for ENGS/QBS 108: Applied Machine Learning   **Autumn 2017**
  - Weekly recitation and writing and grading student assignments

- Instructor for ENGS 177: Decision Making Under Risk and Uncertainty   **Winter 2017**
  - Weekly recitation and writing and grading student assignments

The Ohio State University, Columbus, OH

Teaching Assistant

- Instructor for CSE 625: Automata and Formal Languages   **Summer & Autumn 2010**
  - Weekly recitation and grading student assignments

- Grader for CSE 560: System Software Design and Devlopment   **Summer 2010**
  - Summer 2006

PROFESSIONAL SERVICE

Conference Service
- Program Committee: 28th International AAAI Florida Artificial Intelligence Research Symposium Conference (FLAIRS-28). Hollywood, Florida, USA. May 18-20, 2015.

TECHNICAL SKILLS

Computer Programming:
- Python, C/C++, Java, NetLogo, UNIX shell scripting, SQL, MySQL, and others

Numerical Analysis:
- MATLAB, Mathematica, R

Version Control and Software Configuration Management:
- Git, VCS (CVS, SVN)

Desktop Editing and Productivity Software:
- Emacs, Eclipse, IntelliJ, Vim
- TEX (LaTeX, BibTeX),
- Microsoft Office, OpenOffice.org, LibreOffice, Corel WordPerfect, Google Docs

AWARDS

MIT Lincoln Laboratory
- Lincoln Scholar Program recipient, 2015 (declined)

The Ohio State University
- Mathematics Kenneth Cummings Scholarship, 2008–2011
- Distinguished Merit Scholarship, 2007–2011
- Ohio Academic Scholarhship, 2007-2011
- Bingham Award in Philosophy, 2010