

Michael Boratko

Education

- 2012–2018 **PhD Mathematics**, *UMass Amherst*, Amherst, MA.
2015–2018 **MS Computer Science**, *UMass Amherst*, Amherst, MA.
2008–2010 **BA Mathematics, Economics**, *Central Connecticut State University*, New Britain, CT.

PhD Research

- advisors *Prof. Andrea Nahmod* and *Prof. Nestor Guillen*
research area Variational Analysis, Harmonic Analysis, Geometric PDEs
thesis On the Growth of Sobolev Norms for the Nonlinear Schrödinger Equation on Tori and Boundary Unique Continuation for Elliptic PDE

Experience

Vocational

- 2012–2018 **Teaching Assistant**, *UMass Amherst*, Amherst, MA.
As part of the graduate program I have taught, graded, and held office hours for undergraduate classes in both Mathematics and Computer Science.
- Teaching:
 - Calculus I, II, and III
 - Differential Equations
 - Grading:
 - Artificial Intelligence (undergraduate and graduate level)
- 2002–2018 **Owner**, *Starstreak Computer Services*, West Hartford, CT.
Established company specializing in IT Consulting and Website Development.
- Hired and managed subcontractors as required.
 - Designed new network systems from the ground up, including VPNs and cloud based solutions.
 - Focused on alternative technologies when appropriate, including open-source solutions.
 - Created custom scripts for monitoring and backing up servers.
 - Website development and computer programming:
 - Utilized and contributed to existing open source products when appropriate.
 - Created custom web-based applications for specific niche industries.
 - Wrote code which facilitated interaction between existing proprietary applications.

Military

- 2003–Present **Bandsperson**, *Connecticut Army National Guard*, Rockville, CT.
Sergeant (E5) in the 102nd Army National Guard Band. I play several instruments, arrange music, and provide leadership for new soldiers.

Publications

Michael Boratko, Harshit Padigela, Divyendra Mikkilineni, Pritish Yuvraj, Rajarshi Das, Andrew McCallum, Maria Chang, Achille Fokoue-Nkoutche, Pavan Kapanipathi, Nicholas Mattei, et al. A Systematic Classification of Knowledge, Reasoning, and Context within the ARC Dataset. In *Proceedings of the Workshop on Machine Reading for Question Answering*, 2018. **(Best Paper Award, Oral Presentation)**.