

## Interests

- Design and implementation of large-scale distributed operating systems.
- New classifications of scalable elastic applications, and their impact on the fields of Big Data, HPC.
- Cloud computing infrastructure, IaaS platforms, and the economics of utility-based computation.

## Educations

Ph.D. **Boston University**, Computer Science, *expected* May 2018

B.A. **New Jersey Institute of Technology**, Computer Science, May 2007

## Experience

- “From scratch” approach to the design and development of a library operating system (EbbRT). Considerations made to both bare-metal performance and legacy OS integration.
- Application development for IBM BlueGene/Q architectures. Software scaled up to 16,000 cores.

## Publications/Presentations

- Dan Schatzberg, James Cadden, Han Dong, Orran Krieger, and Jonathan Appavoo, EbbRT: A Framework for Building Per-Application Library Operating Systems”, in proceedings of the 12th USENIX Symposium on Operating Systems Design and Implementation (OSDI 2016), November 2–4, 2016, Savannah, GA, USA.
- Dan Schatzberg, James Cadden, Orran Krieger, and Jonathan Appavoo, "A Way Forward: Enabling Operating System Innovation in the Cloud" to appear in the proceedings of 6th USENIX Workshop on Hot Topics in Cloud Computing (HotCloud '14).
- Jonathan Appavoo, Dan Schatzberg, **James Cadden**, Orran Krieger, " *Total Order Broadcast Total Order Broadcast Total Order Broadcast for Fault Tolerant Exascale Systems*", BUCS Technical Report. July 2013
- Jonathan Appavoo, Dan Schatzberg, James Cadden, Orran Krieger, "*EbbRT*", to appear at the OS/R Workshop, DOE, Oct 4–5, 2012, Washington, DC.
- Dan Schatzberg, James Cadden, Orran Krieger, Jonathan Appavoo, "*MultiLibOS: An OS architecture for Cloud Computing*" in preperation as a technical report.
- Dan Schatzberg, James Cadden, Orran Krieger, and Jonathan Appavoo, "*POSTER: A Library OS for Cloud Computing*", Poster at 2012 USENIX Annual Technical Conference, June 13–15, 2012, Boston, MA.
- Dan Schatzberg, James Cadden, Orran Krieger, and Jonathan Appavoo, "*POSTER: First Class Event-Driven Software Primitives*", Poster at 2012 USENIX Annual Technical Conference, June 13–15, 2012, Boston, MA.

## Academic Development

- Teaching Fellow. CS451/651 Distributed Systems, Boston University Spring 2017  
2013 – 2015
- Teaching Fellow. CS210: Computer Systems, Boston University
- Research Assistantship. SESA Research group, Boston University 2013 – present

## Affiliations/Memberships

- S.E.S.A Research Group. Boston University 2013 - current
- Upsilon Pi Epsilon. ACM Computer Disciplines Honor Society 2006

## Professional Development

- Teaching Fellow & Research Assistant, Boston University 2013 - 2017
- Software Developer, One Ocean Technology 2007 - 2011
- Software Engineer Intern, Honeywell International 2006