

Allen G. Clement

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Education

- Ph.D. in Computer Science** The University of Texas at Austin, 2002-present.
Adviser: Lorenzo Alvisi and Mike Dahlin (*expected May 2010*)
- A.B. in Computer Science** Princeton University, 1996-2000
Adviser: Hervé Brönnimann and Bernard Chazelle

Research Interests

Distributed computer systems. Sub-interest include reliability, fault tolerance, and network architecture.

Publications

Refereed Conference Papers

1. “Model Checking Coalition Nash Equilibria in MAD Distributed Systems,” F. Mari, I. Melatti, I. Salvo, E. Tronci, L. Alvisi, A. Clement, and H. Li, *Stabilization, Safety, and Security of Distributed Systems (SSS)*, November 2009.
2. “UpRight Cluster Services,” A. Clement, M. Kapritsos, S. Lee, Y. Wang, L. Alvisi, and M. Dahlin, *Symposium on Operating Systems Principles (SOSP)*, October 2009.
3. “Making Byzantine Fault Tolerant Systems Tolerate Byzantine Faults,” A. Clement, M. Marchetti, E. Wong, L. Alvisi, and M. Dahlin, *Symposium on Networked Systems Design and Implementation (NSDI)*, April 2009.
4. “FlightPath: Obedience vs. Choice in Cooperative Services,” H. Li, A. Clement, M. Marchetti, M. Kapritsos, L. Robison, L. Alvisi, and M. Dahlin, *Symposium on Operating System Design and Implementation (OSDI)*, December 2008.
5. “Model Checking Nash Equilibria in MAD Distributed Systems,” F. Mari, I. Melatti, I. Salvo, E. Tronci, L. Alvisi, A. Clement, and H. Li, *Formal Methods in Computer Aided Design (FMCAD)*, November 2008.
6. “Matrix Signatures: From MACs to Digital Signatures in Distributed Systems,” A. Aiyer, L. Alvisi, R. Bazzi, and A. Clement, *Symposium on Distributed Computing (DISC)*, September 2008.
7. “BAR Primer,” A. Clement, H. Li, J. Napper, J.P. Martin, L. Alvisi, and M. Dahlin, *Symposium on Dependable Systems and Networking (DSN)*, July 2008.

8. “Zyzyva: Speculative Byzantine Fault Tolerance,” R. Kotla, L. Alvisi, M. Dahlin, A. Clement, and E. Wong, *Symposium on Operating Systems and Principles (SOSP) Award Paper*, Oct 2007.
9. “The Paxos Register,” H. Li, A. Clement, A. Aiyer, and L. Alvisi, *Symposium on Reliable Distributed Systems (SRDS)*, Oct 2007.
10. “Brief Announcement: Theory of BAR Games,” A. Clement, J. Napper, H. Li, J.P. Martin, L. Alvisi, and M. Dahlin, *Symposium on Principles of Distributed Computing (PODC)*, Aug 2007.
11. “BAR Gossip,” H. Li, A. Clement, E. Wong, J. Napper, I. Roy, L. Alvisi, M. Dahlin, *Symposium on Operating Systems Design and Implementation (OSDI)*, Nov 2006.
12. “BAR Tolerance for Cooperative Services,” A. Aiyer, L. Alvisi, A. Clement, M. Dahlin, J. Martin, C. Porth, *Symposium on Operating Systems Principles (SOSP) Award Paper*, Oct 2005 .

Workshop Papers

1. “Position Paper: BFT: The Time is Now,” A. Clement, M. Marchetti, E. Wong, L. Alvisi, and M. Dahlin, *Workshop on Large Scale Distributed Systems and Middleware (LADIS)*, September 2008.
2. “MAD Utility Functions,” A. Clement, *Workshop on Future Directions in Distributed Computing (FuDiCo)*, June 2007.

Journal Articles

1. “Zyzyva: Speculative Byzantine Fault Tolerance,” R. Kotla, A. Clement, E. Wong, L. Alvisi, and M. Dahlin, *Communications of the ACM*, v. 51 n. 11, November 2008.

Invited Papers

1. “Distributed Computing in SOSP and OSDI,” A. Clement, *SIGACT News*, v. 39 n. 3, September 2008.

Awards and Honors

- **James C. Browne Graduate Fellowship** Awarded annually to an outstanding systems graduate student in the Department of Computer Sciences. (UT-Austin), 2007.
- **IGERT Traineeship in Computation Phylogenetics and Applications to Biology** (UT-Austin), 2003-2004.
- **Dean’s Excellence Award** Awarded annually to outstanding incoming graduate students by the College of Natural Sciences. (UT-Austin), 2002-2003.

Research Positions

- 1/05 - present: *Graduate Research Assistant*
Department of Computer Sciences, The University of Texas at Austin
Advised by Lorenzo Alvisi and Mike Dahlin
- 6/06 - 8/06: *Research Intern*
Microsoft Research, Silicon Valley Campus
Advised by Leslie Lamport
- 9/03 - 5/04: *Graduate Research Assistant*
Department of Computer Sciences, The University of Texas at Austin
Advised by Tandy Warnow
- 9/01 - 5/02: *Graduate Research Assistant*
Department of Computer Science, The University of British Columbia
Advised by Will Evans

Teaching Positions

Teaching Assistant

<i>CS 307</i>	<i>Fundamentals of Computer Science</i>	(UT-Austin)	Fall 2004
<i>CS 375</i>	<i>Compilers</i>	(UT-Austin)	Summer 2003
<i>CS 310h</i>	<i>Honors Computer Programming and Architecture</i>	(UT-Austin)	Spring 2003
<i>CS 234</i>	<i>Technical Writing</i>	(UT-Austin)	Fall 2002
<i>CPSC 122/152</i>	<i>Principles of Software Development</i>	(UBC)	Spring 2002
<i>CPSC 420</i>	<i>Advanced Algorithm Design and Analysis</i>	(UBC)	Fall 2001

Department Service

- 2007-present: Graduate representative, Gates Complex/Dell Hall building committee.