

Edward L. Platt
Academic Curriculum Vitae

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Education

Current PhD student
University of Michigan, School of Information, 2015--present
Advisor: D.M. Romero

M.Math., Applied Mathematics
University of Waterloo, 2007--2009.
Thesis: "WKB Analysis of Tunnel Coupling in a Simple Model of a Double Quantum Dot."
Advisors: J. Paldus, F. Wilhelm-Mauch

S.B., Computer Science; S.B., Physics
Massachusetts Institute of Technology, 2002--2006.
Thesis: "Effects of Control Error on an Adiabatic Quantum Algorithm."
Advisor: E. Farhi.

Refereed Publications

Platt, E.L., Bhargava, R., Zuckerman, E. "The International Affiliation Network of YouTube Trends." *Ninth International AAAI Conference on Web and Social Media*. 2015.

Research

Research Assistant, D.M. Romero, University of Michigan School of Information, 2015--present.
Developing schemes for trusted communication in vertex-transitive peer-to-peer networks.

Staff, MIT Center for Civic Media, 2012--2015.
Provided software engineering support to graduate students on numerous projects. Used network analysis and multiple regression to determine factors contributing to media attention across national borders.

Master's Thesis, Waterloo, 2007--2009.
Modeled double quantum dots and used numerical simulations to determine the effects of bias on tunneling. Advisors: J. Paldus, F. Wilhelm-Mauch.

Undergraduate Thesis, MIT, 2005--2006.

Modeled and characterized effects of control error on an adiabatic quantum algorithm. Advisor: E. Farhi.

Undergraduate Researcher, MIT/CERN Compact Muon Solenoid, 2005.

Took over and completed implementation of CMSRoot, a high-energy physics simulation framework. Simulated heavy ion collisions in the LHC. Advisor: B. Wyslouch.

Undergraduate Researcher, MIT Media Lab: Quanta, 2004.

Implemented matrix factorizations and simulated fault-tolerant quantum computations. Advisor: I. Chuang.

Undergraduate Researcher, MIT Media Lab: Tangible Media, 2003.

Contributed to development of CircuitUI, a tangible user interface for circuit design. Created teaching materials for MIT 8.02T Electricity and Magnetism. Advisor: H. Ishii.

Undergraduate Researcher, MIT Cognition Lab, 2002--2003.

Implemented visual imagery experiments and administered to human subjects. Advisor: L. Boroditsky.

Teaching

Summer 2008, Waterloo. TA for AMATH 250, Introduction to Differential Equations.

Spring 2008, Waterloo. TA for AMATH 250, Introduction to Differential Equations.

Fall 2007, Waterloo. TA for MATH 125, Applied Linear Algebra I.

Fall 2007, Waterloo. TA for MATH 127, Calculus I for the Sciences.

Fall 2004, MIT. Lab assistant for MIT 1.00, Computers and Engineering Problem Solving.

Spring 2003, MIT. Lab assistant for MIT 1.00, Computers and Engineering Problem Solving.

Talks

April 2015, Penguicon, "Social Network Analysis with NetworkX and Gephi."

April 2015, Penguicon, "Leading FLOSS Projects."

March 2014, MIT MAS.571 Social TV, guest lecture. "What We Watch."

February 2014, MIT CMS.400 Media Systems and Texts, guest lecture. "What We Watch."

February 2014, Harvard Berkman Center, Cooperation Working Group. "What We Watch."

April 2014, Penguicon. "Civic Technology."

June 2013, Allied Media Conference. "Vojo."

April 2013, Penguicon. "VoIP, SMS, and MMS."

April 2013, Penguicon. "Seltzer CRM."

April 2012, Penguicon. "Drupal CCK: Easily manage complex data without any programming."

April 2010, Penguicon. "Hackerspaces."

February 2010, Ignite Detroit. "Something About Dopamine."

Program Committees

Program Committee, 10th International AAAI Conference on Web and Social Media.

Awards

Best Software, APSA - ITP, 2014 (PageOneX, collaboration).

Hack of Honor, Penguicon 2010 (i3 Detroit, collaboration).

Design Award, MIT 6.170 Software Engineering, 2005 (collaboration).

Ronald H. Cordover Scholar in the Arts, 2003--2006.

Volunteer Experience

MIT Admissions, Engineering Advisory Board, 2014--present

MIT Admissions, Educational Counselor, 2011--2012

i3 Detroit: co-founder, treasurer, and board member, 2009--2014

List Visual Arts Center: board member, 2004--2006

Work Experience

Freelance Web Developer, Chatango, 2011--2012.

Created embeddable JavaScript chat widget. Responsible for cross-browser/mobile compatibility.

Freelance Web Developer, Doner Advertising, 2010--2011.

Implemented websites/CMS for clients including Quaker State, Dupont Teflon, and Pictsweet.

Freelance Web Developer, 2009--2010.

Developed websites for clients including Modernistic Carpet, Shrader Labs, H.A. King.

Software Engineer, Zimride (Lyft), 2008--2009.

Collaborated with company founders to implement social feedback and rating system.

Software Engineer, Apple Computer, Color Imaging Group, 2006.

Applied machine learning and image processing to content-based image retrieval.