

David Guy Brizan

Curriculum Vitae

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Education

Ph.D. Computer Science, The City University of New York, Graduate Center, Spring 2016 (expected).

Dissertation: “Unsupervised domain adaptation using phonetic models”

Committee: Andrew Rosenberg (chair), Liang Huang, Rivka Levitan, Fadi Biadisy.

M.S. Computer Science, San Francisco State University, 2006.

B.S. Computer and Information Science, Brooklyn College (City University of New York), 1993.

Research Experience

The Speech Lab, Queens College (City University of New York)

Research Assistant (New York, NY), 2012–present

Conducted research using keystroke dynamics to identify unique typing patterns for subject users

Developed, implemented and tested linguistic features and experiments to identify typing characteristics unique to individuals and demographic groups

Interactions, LLC

Research Intern (Murray Hill, NJ), Summer 2015

Improved speech processing for second-language (L2) speakers

Research Foundation, City University of New York

Research Assistant (New York, NY), 2010

Conducted research into large academic social network patterns

Teaching Experience

Department of Computer Science, Hunter College (City University of New York)

Adjunct Lecturer (New York, NY), 2005–present

Coordinated courses: Analysis & Design II (Fall 2013–Spring 2014)

Taught 6 courses (approximately 24 distinct sections):

CSCI 120: Introduction to Computing (Spring 2006–Fall 2007)

CSCI 121: Computers & Money (Fall 2013)

CSCI 127: Introduction to Computer Science (Fall 2005–Spring 2011)

CSCI 135: Analysis & Design I (Fall 2010–Spring 2014)

CSCI 235: Analysis & Design II (Fall 2010–Spring 2014)

CSCI 499: Advanced Applications (Summer 2014–Fall 2015)

CUNY Institute of Design and Development

Teaching Assistant, Fall 2014–Spring 2015

Graded, prepared and delivered secondary lectures for the CUNY/NYTech Program

Department of Computer Science, The City University of New York, Graduate Center

Teaching Assistant, Fall 2013

Helped organize and graded for course *Natural Language Processing, Machine Learning & the Web*

Publications

2015

Improvements to Keystroke-Based Authentication by Adding Linguistic Content

Adam Goodkind, David Guy Brizan and Andrew Rosenberg

Biometric Theory and Systems 2015

Automatic Recognition of Unified Parkinson's Disease Rating from Speech with Acoustic, i-Vector and Phonotactic Features

Guozhen An, David Guy Brizan, Min Ma, Michelle Morales, Ali Raza Syed and Andrew Rosenberg

Interspeech 2015

Utilizing Linguistically-Enhanced Keystroke Dynamics to Predict Typist Cognition and Demographics

David Guy Brizan, Adam Goodkind, Patrick Koch, Kiran Balagani, Vir V. Phoha and Andrew Rosenberg

International Journal of Human-Computer Studies 82(10), 57-68, 2015

2014

Continuous Authentication with Cognition-centric Text Production and Revision Features

Hilbert Locklear, Sathya Govindarajan, Zdenka Sitova, Adam Goodkind, David Guy Brizan, Andrew Rosenberg, Vir Phoha, Paolo Gasti, and Kiran S. Balagani

International Joint Conference on Biometrics (IJCB), 1-8, 2014

"Was that your mother on the phone?": Classifying Interpersonal Relationships between Dialog Participants with Lexical and Acoustic Properties

Denys Katerenchuk, David Guy Brizan and Andrew Rosenberg

Interspeech 2014

2013

Detecting Laughter and Filled Pauses Using Syllable-based Features

Guozhen An, David Guy Brizan and Andrew Rosenberg

Interspeech 2013

Scan-Based Evaluation of Continuous Keystroke Authentication Systems

Abdul Serwadda, Zibo Wang, Patrick Koch, Sathya Govindarajan, Raviteja Pokala, Adam Goodkind, David-Guy Brizan, Andrew Rosenberg, Vir V. Phoha and Kiran S. Balagani

IEEE IT Professional 15(4), 20-23, 2013

2006

A Survey of Entity Resolution and Record Linkage Methodologies

David Guy Brizan and Abdullah Uz Tansel

Communications of the IIMA 6 (3), 41-50, 2006

Evaluation of Equivalence of French/English Idiomatic Pairs

David Guy Brizan

Technical Report: San Francisco State University, 2006

Service and Activities

Student Member: *CUNY Graduate Council*, 2014-2016

Student Member: *Executive Committee of the Computer Science Program*, 2013-2015

Workshop co-organizer: *Psychocomputational Models of Human Language Acquisition*, 2007-2008

Reviewer: *Psychocomputational Models of Human Language Acquisition*, 2008

Professional Experience

The City of New York

IT Coordinator (New York, NY), 2007–2010

Consultant (New York, NY), 2005–2006

Authored winning grant proposal: 2009 Edward Byrne Memorial grant, which funded Reporting & Analytics team

Led (staffed, set priorities, established procedures and guided) Reporting and Analytics team

Designed Inmate Lookup: Best Application Serving the Needs of a City Agency (2005)

IBM

Staff Software Engineer (San Francisco, CA), 2000–2004

Designed, developed and implemented the middle tier of an application to web-enable a client bank's legacy mainframe system using MQSeries

Established and implemented build and release procedures for IBM client

Designed, developed and implemented High Availability algorithms in the WebSphere InterChange Server for database and MQSeries connections

McKesson

Interface Developer (Minneapolis, MN), 1999–2000

Developed and implemented Java applications and utilities to collect customer and trading partner data

Developed Java servlets for clinician appointments and for error management

Mapped data from customer format (HL7, NCPDP) to internal format (XML)

Law Cypress

Consultant (Minneapolis, MN), 1998–1999

Installed and configured imaging applications (Hyland OnBase and FileNet Panagon)

Allina Health System

Distributed Applications Architect (Minneapolis, MN), 1997–1998

Designed, implemented and maintained Internet and Intranet web applications and content

United HealthCare

Knowledge Engineer (Minneapolis, MN), 1997–1998

Unix System Administrator (Minneapolis, MN), 1995–1997

Implemented AdjudiPro, rules-based application written in SNAP, and integrated third-party products into the AdjudiPro application

Installed, configured and maintained servers running AIX, Novell Netware and Windows

Horton Companies

System Support (Minneapolis, MN), 1994–1995

Installed and configured servers (AIX, Novell) and workstations (Windows)

Languages, Skills and Memberships

Programming Languages: C++, C#, Java, Python, SQL

Computer Skills: L^AT_EX, Linux/Unix, MySQL, scikit-learn, Weka

Languages: English (fluent), French (conversational), Spanish (conversational)

Memberships: ACM, IEEE