

ALVIN GRISSOM II

Assistant Professor of Computer Science, Haverford College

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DEGREES

- Ph.D., Computer Science** May 2017
University of Colorado Boulder *Boulder, Colorado, USA*
Thesis: Incremental Prediction and Decision-making for Simultaneous Machine Translation
Advisor: Jordan Boyd-Graber
- M.S., Computer Science** 2009
Emory University *Atlanta, Georgia, USA*
Thesis: Sentiment in Japanese: A Corpus-based Approach with Sociolinguistic Implications
Advisor: Eugene Agichtein
- B.A., Computer Science, Mathematics Minor** 2006
Hendrix College *Conway, Arkansas, USA*
- Certificate, Asian Studies** 2004
Kansai Gaidai University *Hirakata City, Japan*

PEER-REVIEWED CONFERENCE PUBLICATIONS AND JOURNAL ARTICLES

- An Attentive Recurrent Model for Incremental Prediction of Sentence-final Verbs** 2020
Findings of Empirical Methods in Natural Language Processing (Findings of EMNLP)
Wenyan Li, [Alvin Grissom II](#), and Jordan Boyd-Graber
- Investigating Sports Commentator Bias within a Large Corpus of American Football Broadcasts** 2019
Conference on Empirical Methods in Natural Language Processing and International Joint Conference on Natural Language Processing (EMNLP-IJCNLP) (20.5% acceptance rate) *Hong Kong*
John Merullo, Luke Yeh, Abram Handler, [Alvin Grissom II](#), Brendan O'Connor, and Mohit Iyyer
- Gower as Data: Exploring the Application of Machine Learning to Gower's Middle English Corpus** 2019
Accessus 5(2), 8
Kara L. McShane and [Alvin Grissom II](#)
- Pathologies of Neural Models Make Interpretation Difficult** 2018
Empirical Methods in Natural Language Processing (EMNLP) (25% acceptance rate) *Brussels*
Shi Feng, Eric Wallace, [Alvin Grissom II](#), Mohit Iyyer, Pedro Rodriguez, and Jordan Boyd-Graber
- Substring Frequency Features for Segmentation of Japanese Katakana Words with Unlabeled Corpora** 2017
International Joint Conference on Natural Language Processing (IJCNLP) (31% accepted) *Taipei*
Yoshinari Fujinuma and [Alvin Grissom II](#)
- Incremental Prediction of Sentence-final Verbs: Humans versus Machines** 2016
Conference on Computational Natural Language Learning (CoNLL) (20% acceptance rate) *Berlin*

Alvin Grissom II, Naho Orita, and Jordan Boyd-Graber

Syntax-based Reordering for Simultaneous Machine Translation 2015
Empirical Methods in Natural Language Processing (EMNLP) (24% acceptance rate) Lisbon

He He, Alvin Grissom II, Jordan Boyd-Graber, and Hal Daumé III

Don't Until the Final Verb Wait: Reinforcement Learning for Simultaneous Machine Translation 2014
Empirical Methods in Natural Language Processing (EMNLP) (30% acceptance rate) Doha

Alvin Grissom II, He He, Jordan Boyd-Graber, John Morgan, and Hal Daumé III

Annotating Factive Verbs 2012
Conference on Language Resources and Evaluation (LREC) Istanbul

Alvin Grissom II and Yusuke Miyao

TEACHING

Haverford College July 2020-Present
Assistant Professor of Computer Science (Tenure-track) Haverford, PA, USA

CMSC/LING325 Computational Linguistics (F-20)

Ursinus College August 2017 - May 2020
Assistant Professor of Computer Science (Tenure-track) Collegeville, PA, USA

CS-173 Introduction to Computer Science (F-17)

CS-477 Artificial Intelligence (F-17, F-19)

CS-174 Object-Oriented Programming (S-18, S-19, S-20)

CS-474 Human-Computer Interaction (S-18, S-20)

CS-471 CS Seminar: Deep Computer Vision and Language (F-18)

CS-373 Theory of Computation (F-18)

CS-374 Principles of Programming Languages (S-19)

CS 371W Data Structures and Algorithms (S-19, S-20)

University of Colorado August 2016 - December 2016
Instructor, Special Topics: Machine Learning Boulder, CO, USA

Primary instructor for machine learning course for undergraduates, requiring adaptation of fast-paced graduate course.

University of Colorado August 2014 - December 2014
Teaching Assistant, Computer Science I Boulder, CO, USA

Responsible for four recitations per week, or approximately 100 students. Graded held office hours, and tutored students, and planned curricula.

Duke University Talent Identification Program June 2010 - July 2010
Instructor, Web Application Development San Antonio, TX, USA

Created and taught summer course for middle and high school students to learn computer programming and web development.

Emory University September 2008 - May 2009
Teaching Assistant, Computer Science I Atlanta, GA, USA

Held office hours and graded assignments introductory computer science course.

Duke University Talent Identification Program

Instructor, Computer Programming

June 2008 - July 2008

College Station, TX, USA

Designed and taught two summer sessions for high school students to learn computer science concepts and programming. Was asked to return.

Hendrix College

Tutor, Math Help Center

August 2003 - May 2006

Conway, AR, USA

Held weekly paid office hours to help calculus and pre-calculus students. Graded assignments.

Hendrix College

Volunteer Tutor, Menifee School District

September 2002 - May 2003

Menifee, AR, USA

Volunteered to tutor grade school students weekly in nearby school district.

CURRICULUM DEVELOPMENT

Haverford College

Designed new course on computational linguistics, online

2020

Created extensive lecture notes and assignments for course.

Ursinus College

Special Topics: Deep Computer Vision and Language

2018

Designed special topics course on deep learning for undergraduates with no background in the subject.

Ursinus College

Other Courses

2017-2020

Created new curriculum/assignments for introductory computer science, Data Structures and Algorithms, Artificial Intelligence, Human-Computer Interaction, and Principles of Programming Languages. Incorporated issues of ethics into HCI, AI, and Algorithms courses.

Ursinus College

Digital Humanities Python Workshop

2018

Designed and led one-day Python programming workshop for humanities faculty.

University of Colorado Boulder

Special Topics: Machine Learning

2016

Designed undergraduate machine learning course.

University of Maryland, College Park

“Winter Storm” workshop

2013

Planning Committee

Designed and led week-long workshop (“Computational Linguistics for Everyone”) designed for people with potentially no background in computational linguistics.

Designed and ran week-long Python course for language scientists at student-run workshop.

Gave lecture on machine translation to high school students.

Duke University Talent Identification Program

Computer Programming

2010

Designed and ran programming curriculum for summer program for “gifted” students.

Duke University Talent Identification Program 2008

Web Application Development

Designed programming curriculum for summer program for “gifted” students.

GUEST LECTURES

University of Maryland, College Park 2014

Computational Linguistics I

Formal Semantics

University of Maryland, College Park 2014

Computational Linguistics I

Viterbi Algorithm

Emory University 2008

The Web

CSS and Javascript

INDUSTRY WORK EXPERIENCE

IBM Research–Tokyo February 2016 - July 2016

Intern

Tokyo, Japan

Researched incremental question answering and performed software engineering tasks.

National Institute of Informatics June 2013 - August 2013

Research Intern

Tokyo, Japan

Researched final verb prediction in Japanese using statistical language models.

National Institute of Informatics May 2011 - August 2011

Research Intern

Tokyo, Japan

Researched textual entailment.

Oak Ridge National Laboratory June 2012 - August 2012

Summer Intern

Oak Ridge, TN, USA

Worked on natural language processing-related projects.

Securboracion November 2011 - May 2012

Software Engineer

Washington, DC, USA

Worked on natural language processing-related projects.

University of Arizona April 2010 - December 2010

Software Developer/Consultant

Tucson, AZ, USA Remote

Mobile programmer for psychology research project

Emory University February 2010 - March 2010

Software Developer/Consultant

Atlanta, GA, USA

Mobile programmer for psychology research project

Acxiom Corporation*Software Developer*

Software developer for user interfaces group.

June 2006 - June 2007

*Little Rock, AR, USA***Duoshare Software***Software Developer Intern*

Software developer intern, working on multilingualization of point-of-sale software.

May 2004 - August 2004

*Dallas, TX, USA***INVITED TALKS (NON-CONFERENCE)**

Seoul National University*Invited Talk (Virtual)**Introspection: Examining Pathologies of Neural NLP Models and Racial Bias in Sports Commentary*

August, 2020

*Seoul, South Korea***Tufts University Cognitive Science***Invited Talk**Bias and Beyond: AI in the Service of Power*

March, 2020

*Boston, MA***Widening NLP (WiNLP) Workshop 2019***Keynote**How NLP is Used to Serve Power: Current and Future Trends*

July, 2019

*Florence, Italy***University of Tokyo***Invited Talk**How NLP is Used to Serve Power: Current and Future Trends*

July, 2019

*Tokyo, Japan***Haverford College***Invited Talk**Reinforcement Learning for Simultaneous Machine Translation*

February, 2019

*Haverford, PA, USA***Black in AI Workshop 2018***Pathologies of Neural Models Make Interpretations Difficult*

Oral presentation

December 2018

*Montreal, BC, Canada***Harvey Mudd College***Invited Talk**Reinforcement Learning for Simultaneous Machine Translation*

February, 2018

*Claremont, California, USA***University of Aizu***Reinforcement Learning and Verb Prediction for Simultaneous Machine Translation*

August 2018

*Aizuwakamatsu, Japan***University of Pennsylvania***Reinforcement Learning and Verb Prediction for Simultaneous Machine Translation*

October 2017

*Philadelphia, PA, USA***Google Japan***Reinforcement Learning and Verb Prediction for Simultaneous Machine Translation*

Machine Translation Group

July 2016

Tokyo, Japan

National Institute of Informatics <i>Reinforcement Learning and Verb Prediction for Simultaneous Machine Translation</i> Miayo Lab	July 2016 Tokyo, Japan
Nara Institute of Technology <i>Reinforcement Learning and Verb Prediction for Simultaneous Machine Translation</i> Augmented Human Communication Lab	June 2016 Nara, Japan
Kyoto University <i>Incremental Prediction of Sentence-final Verbs</i> Kurohashi-Kawahara Lab	June 2016 Kyoto, Japan

ACADEMIC SERVICE

Ursinus College <i>Information Technology Committee</i>	2018-2020
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This committee considers plans for the selection and implementation of technology across campus.

University of Colorado Graduate Committee <i>Graduate Student Representative</i>	2016-2017
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The Grad Comm reviews all applications to the department and handles petitions from students, as well as curriculum and event planning.

University of Maryland “Winter Storm” Planning Committee <i>Committee Member</i>	2014
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Planned and took part in language science workshop

Created hour-long lecture on machine translation for high school students.

Created and taught multi-day Python workshop for language scientists.

Hendrix College <i>Volunteer Tutor</i>	2002-2003
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Volunteered to tutor grad school students in nearby small town on a weekly basis.

PROFESSIONAL SERVICE

- ACL 2021 Diversity and Inclusion Co-chair
- ACL-IJCNLP 2021 Ethics in NLP Area Chair
- EMNLP 2020 Ethics Committee
- CoNLL 2020, Area Chair
- Workshop on Automatic Simultaneous Translation (AutoSimTrans) 2020 Program Committee
- EMNLP 2020 Program Committee
- EMNLP-IJCNLP 2019 Program Committee
- AI for Social Good Workshop 2019, Area Chair
- AAAI 2019 Program Committee
- NAACL 2019 Student Research Workshop Program Committee

- ACL 2019 Program Committee
- NAACL 2018, 2019 Student Research Workshop, Program committee
- COLING 2018, Area chair
- Black in AI Workshop 2017-2020 Program Committee
- CoNLL 2017-2019 Program Committee
- ACL 2017, 2018 Student Research Workshop Committee, Mentor
- Computer Speech and Language, Reviewer
- Language Resources and Evaluation, Reviewer
- ACL 2013, Associate Reviewer

FELLOWSHIPS AND SCHOLARSHIPS

NSF IGERT Language Science Fellowship 2013-2014
University of Maryland, College Park

Cross-disciplinary fellowship where I took part in language science-related research and activities.

GEM Fellowship 2012-2013
GEM Foundation

Private tuition fellowship and internship

Tuition Scholarship 2007-2009
Emory University

Partial tuition scholarship for MS in computer science

Chairman's Scholarship 2002-2006
Hendrix College

Partial tuition scholarship for undergraduate studies.

AWARDS

Arkansas Undergraduate Mathematics Competition 2006
First Place Team

Top ranking team for solving a series of theoretical mathematics problems under time constraints.

Arkansas Undergraduate Mathematics Competition 2005
Third Place Team

Third place team for solving a series of programming problems under time constraints.

Axiom Programming Contest 2005
Second Place Team

Second place team for solving a series of programming problems under time constraints.

Pi Mu Epsilon 2003-2006
Member

National Mathematics Honor's Society

GRANTS

\$5500 Pennsylvania Consortium for the Liberal Arts (PCLA) Opportunity Grant (2017)

\$150 Amazon EC2 Course Grant (2017)

\$600 Google Cloud Course Grant (2017-2019)

\$1000 Ursinus Small Research Grant (2017-2019)

NVIDIA GPU Seed Grant (2017, 1 Titan XP GPU)

LANGUAGES

English (native), Japanese (intermediate reading, speaking)