
Research Interests

- Natural Language Processing, Machine Learning, Recommender Systems, Computer Science Education

Education

- Spring 2019 (expected) **PhD Computer Science, University of Massachusetts Amherst, Amherst, MA.**
- Advisor: Hong Yu
 - GPA: 3.7/4.0
 - Relevant Courses: Machine Learning, Applied Information Theory, Deep Learning, Tools for Explanatory and Advisory Systems
- 06/2015 **Masters of Science - Computer Science, DePaul University, Chicago, IL.**
- Graduated with Distinction
 - GPA: 3.9/4.0
 - Relevant Courses: Web Data Mining, Neural Networks and Machine Learning, Artificial Intelligence, Computational Advertising
- 05/2011 **Bachelor of Business Administration - IT Management, University of Notre Dame, South Bend, IN.**
- Minor: Irish Language and Literature
 - GPA: 3.6/4.0
 - Graduated Cum Laude

Employment

- 09/2015 - **Research Assistant, BioNLP Group, Amherst, MA.**
- Present
- Conduct research in natural language processing and machine learning.
 - Develop and analyze new methods for evaluating machine learning systems.
 - Utilize crowdsourcing techniques to collect data.
- 06/2016 - **Intern, ESPN Advanced Technology Group, Bristol, CT.**
- 08/2016
- Designed and implemented a new summarization tool for ESPN content.
 - Researched methods for scalable content-based recommendation systems to recommend ESPN articles.
- 09/2015 - **Teaching Assistant, Introduction to Computer Science, Amherst College, Amherst, MA.**
- 12/2015
- Professor: Crystal Valentine
 - Hold weekly office hours, assist students during weekly lab session, and grade weekly lab programming assignments
 - Prepared and gave two lectures during the semester.
- 11/2013 - **Software Developer, Eze Software Group, Chicago, IL.**
- 05/2015
- Designed and built a notification system to alert customers when trade orders are completed via email and text message.
 - Designed and built an administrative dashboard for our case management system that filtered and displayed case information for 1000+ cases across 30+ clients.
 - Designed and built search functionality using Lucene.NET to allow users to search 400,000 legacy cases.

07/2011 - **Advisory Sr. Associate**, KPMG, Philadelphia, PA, Chicago, IL.

- 10/2013
 - o Coordinated and performed General IT Control and application control testing for large and mid-size companies across various industries as part of IT Financial Statement Audit Support teams.
 - o Developed an automated user access testing application to identify terminated employees across application access lists.

Publications

- o T. Munkhdalai, J. Lalor, H. Yu, **Citation Analysis with Neural Attention Models**, to appear at *LOUHI 2016 : EMNLP 2016 Workshop - The Seventh International Workshop on Health Text Mining and Information Analysis*, Austin, Texas, USA, November 2016.
- o J. Lalor, H. Wu, H. Yu, **Building an Evaluation Scale using Item Response Theory** To appear at *EMNLP 2016: Conference on Empirical Methods in Natural Language Processing*, Austin, Texas, USA, November 2016.
- o C. Miller, A. Settle, J. Lalor, **Learning Object-Oriented Programming in Python: Towards an Inventory of Difficulties and Testing Pitfalls**. *SIGITE 2015: The Special Interest Group for Information Technology Education Conference*, Chicago, Illinois, October 2015
- o A. Settle, J. Lalor, T. Steinbach, **Evaluating a Linked-Courses Learning Community for Development Majors**. *SIGITE 2015: The Special Interest Group for Information Technology Education Conference*, Chicago, Illinois, October 2015
- o A. Settle, J. Lalor, T. Steinbach, **A Computer Science Linked-Courses Learning Community**. *ITiCSE 2015: The 20th Annual Conference on Innovation and Technology in Computer Science Education*. Vilnius, Lithuania, July 2015
- o A. Settle, J. Lalor, T. Steinbach, **Reconsidering the Impact of CS1 on Novice Attitudes**. *SIGCSE 2015: The ACM Special Interest Group on Computer Science Education*. Kansas City, Missouri, March 2015

Programming Languages/Technologies

- o Languages: Python, R, Java, C#, SQL, Javascript
- o Technologies: Git, AngularJS, Flask, Django, Amazon Mechanical Turk

Academic Awards

- o Recipient: DePaul University Graduate Assistantship
- o Member: DePaul UPE Honor Society
- o Dean's List 4 semesters at Notre Dame

Service

- o DePaul University Graduate Ambassador for prospective students
- o DePaul Tutor for undergraduate students as part of my Graduate Assistantship