John P. Lalor

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Research Interests

○ Natural Language Processing, Machine Learning, Health Informatics, Recommender Systems, Computer Science Education

Education

2015-   **Ph.D. Computer Science**, *University of Massachusetts*, Amherst, MA.
○ Advisor: Hong Yu

2013-2015   **M.S. Computer Science**, *DePaul University*, Chicago, IL.
○ Graduated with Distinction

2007-2011   **B.B.A. IT Management**, *University of Notre Dame*, South Bend, IN.
○ Minor: Irish Language and Literature
○ Graduated Cum Laude

Professional Experience

2015-   **Research Assistant**, *BioNLP Group*, Amherst, MA.
○ Supervisor: Hong Yu

Summer 2017   **Applied Scientist Intern**, *Amazon Alexa*, Cambridge, MA.
○ Supervisors: Imre Kiss and Francois Mairesse

Summer 2016   **Graduate Intern**, *ESPN Advanced Technology Group*, Bristol, CT.
○ Supervisor: Zvi Topol

Fall 2015   **Teaching Assistant**, *Introduction to Computer Science, Amherst College*, Amherst, MA.
○ Professor: Crystal Valentine

2013-2015   **Software Developer**, *Eze Software Group*, Chicago, IL.

2011-2013   **Advisory Sr. Associate**, *KPMG*, Philadelphia, PA, Chicago, IL.

Publications

○ T. Munkhdalai, **J. Lalor**, H. Yu. Citation Analysis with Neural Attention Models. *LOUHI 2016 : The Seventh International Workshop on Health Text Mining and Information Analysis*, Austin, Texas, USA, November 2016.

○ **J. Lalor**, H. Wu, H. Yu. Building an Evaluation Scale using Item Response Theory. *EMNLP 2016: Conference on Empirical Methods in Natural Language Processing*, Austin, Texas, USA, November 2016.

○ 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

○ 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

○ 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

- 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

Posters and Abstracts

- **J. Lalor**, H. Wu, H. Yu. Modeling Difficulty to Understand Deep Learning Performance. *Northern Lights Deep Learning Workshop (NLDL)*, 2018.
- **J. Lalor**, H. Wu, H. Yu. CIFT: Crowd-Informed Fine-Tuning to Improve Machine Learning Ability. *Human Computation and Crowdsourcing (HCOMP)* Works-in-Progress, 2017.
- **J. Lalor**, H. Wu, L. Chen, K. Mazor, H. Yu. Generating a Test of Electronic Health Record Narrative Comprehension with Item Response Theory. *American Medical Informatics Association (AMIA) Annual Symposium* Podium Abstract, 2017.

Invited Talks

- Building Better Evaluations using Item Response Theory. *University of Notre Dame Natural Language Processing Group,* 09/29/2017.
- Building Evaluation Scales for NLP using Item Response Theory. *UMass CICS Machine Learning and Friends Lunch series,* 12/08/2016.

Awards

- Recipient: UMass CICS Travel Grant, January 2018
- Recipient: DePaul University Graduate Assistantship
- Member: DePaul UPE Honor Society
- Dean's List 4 semesters at Notre Dame

Service

- Organizer, UMass CICS Machine Learning and Friends Lunch. 2018-Present
- Mentor, UMass CICS Industry Mentor Program. Spring 2018
- Reviewer, Journal of Medical Internet Research (JMIR). 2016-Present
- DePaul University Graduate Ambassador for prospective students
- DePaul Tutor for undergraduate students as part of my Graduate Assistantship