

Adithya Renduchintala

3400 North Charles Street
Baltimore, MD 21218
adi.r@jhu.edu

RESEARCH INTERESTS

I am broadly interested in problems at the intersection of Machine Learning, Machine Translation, Natural Language Processing, User Modeling and Human Machine Interaction.

EDUCATION

PhD, Computer Science 2013 - Present
Johns Hopkins University, Baltimore, MD
Advisor: Philipp Koehn

MS, Computer Science, 2010 - 2012
University of Colorado, Boulder, CO

MS, Electrical Engineering, Arts Media and Engineering 2005-2008
Arizona State University, Tempe, AZ

BE, Electrical Engineering 2001-2005
Anna University, SRM Engineering College, Chennai, INDIA

PUBLICATIONS [Multi-Modal Data Augmentation for End-to-End ASR.](#)

Adithya Renduchintala, Shuoyang Ding, Matthew Wiesner and Shinji Watanabe, Interspeech 2018.

[ESPnet: End-to-End Speech Processing Toolkit](#)

Shinji Watanabe, Takaaki Hori, Shigeki Karita, Tomoki Hayashi, Jiro Nishitoba, Yuya Unno, Nelson Enrique Yalta Soplin, Jahn Heymann, Matthew Wiesner, Nanxin Chen, Adithya Renduchintala and Tsubasa Ochiai, Interspeech 2018.

[Knowledge Tracing in Sequential Learning of Inflected Vocabulary](#)

Adithya Renduchintala, Philipp Koehn and Jason Eisner, Conference on Computational Natural Language Learning (CoNLL), 2017.

[User Modeling in Language Learning with Macaronic Texts](#)

Adithya Renduchintala, Rebecca Knowles, Philipp Koehn, and Jason Eisner. Annual Meeting of the Association for Computational Linguistics (ACL) 2016.

[Creating interactive macaronic interfaces for language learning](#)

Adithya Renduchintala, Rebecca Knowles, Philipp Koehn, and Jason Eisner. Annual Meeting of the Association for Computational Linguistics (ACL) Demo Session 2016.

[Analyzing learner understanding of novel L2 vocabulary](#)

Rebecca Knowles, Adithya Renduchintala, Philipp Koehn, and Jason Eisner, Conference on Computational Natural Language Learning (CoNLL), 2016.

[Algerian Arabic-French Code-Switched Corpus](#)

Ryan Cotterell, Adithya Renduchintala, Naomi P. Saphra and Chris Callison-Burch. An LREC-2014 Workshop on Free/Open-Source Arabic Corpora and Corpora Processing Tools. 2014.

Using Machine Learning and HL7 LOINC DO for Classification of Clinical Documents.

Adithya Renduchintala, Amy Zhang, Thomas Polzin, G. Saadawi. American Medical Informatics Association (AMIA) 2013.

[Collaborative Tagging and Persistent Audio Conversations](#)

Ajita John, Shreeharsh Kelkar, Ed Peebles, Adithya Renduchintala, Doree Seligmann Web 2.0 and Social Software Workshop in Conjunction with ECSCW. 2007.

[Designing for persistent Audio Conversations in the Enterprise](#)

Adithya Renduchintala, Ajita John, Shreeharsh Kelkar, and Doree Duncan-Seligmann. Design for User Experience. 2007.

[Creating Serendipitous Encounters in a Geographically Distributed Community](#)

Adithya Renduchintala, Aisling Kelliher, and Hari Sundaram. HCM Workshop in Conjunction with ACM. 2006.

EXPERIENCE	<i>Research Intern</i> Summer 2017 Duolingo, Pittsburgh, PA <ul style="list-style-type: none">• Prototyped a Chatbot system that detects and corrects word-ordering errors.• Explored word embedding schemes which are robust to spelling errors.
	<i>Software Engineer</i> 2012 - 2013 M*Modal, Pittsburgh, PA <ul style="list-style-type: none">• Developed SVM based clinical document classification system• Feature Engineering for statistical models for document preprocessing (Tokenization, Chunking and Entity Detection)
	<i>Software Developer</i> 2008 - 2012 Rosetta Stone, Boulder, CO <ul style="list-style-type: none">• Designed, prototyped and evaluated speech recognition based games for language learning.• Prototyped a image-concept relation visualization tool for second language vocabulary learning.
	<i>Research Scientist Intern</i> Summer 2007 Avaya, Collaborative Applications Group, Lincroft, NJ <ul style="list-style-type: none">• Developed an interactive graph based visualization tool to explore and annotate conference calls in enterprises.
	<i>Research Assistant</i> 2006-2008 Arizona State University, Situated Multimedia Systems Lab, Tempe, AZ <ul style="list-style-type: none">• Designed and prototyped systems for serendipitous interactions in distributed workplaces.
CODING SKILLS	<i>Advanced:</i> Python, Java <i>Proficient:</i> C/C++, Javascript, JQuery, NodeJs <i>Deep Learning Frameworks:</i> PyTorch, Theano
COURSEWORK	Natural Language Processing (Fall '13), Graphical Models (Fall '13), Machine Translation (Spring '14), Algorithms (Spring '14), Machine Learning (Fall '14), Artificial Intelligence (Fall '15)
LANGUAGES	<i>Fluent:</i> English, Telugu <i>Proficient:</i> Hindi, Tamil

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