

---

POSITIONS	<p><b>Ph.D. Student</b> 2017 – Present LISP Group, Department of Computer Science, Boston University</p> <p><b>Visiting Student</b> 2018 – Present Genesis Group, CSAIL, MIT</p>
RESEARCH VISION	<p>My research concerns building AI systems that can communicate with us in natural languages. I believe such systems are necessary for achieving Artificial General Intelligences that we can trust. In building such systems, we will inevitably need to better understand intelligence, especially human intelligence. Consequently, I am interesting both in enabling toy-story-understanding systems to begin to read natural-language stories, and in building cognitively inspired systems that bootstrap commonsense knowledge from reading large bodies of texts.</p>
CURRENT RESEARCH PROJECTS	<p><b>High-Precision Natural-Language Parsing Informed by Large-Scale Commonsense</b></p> <ul style="list-style-type: none"> <li>- We use ConceptNet’s commonsense knowledge to inform the START parser’s parsing process, demonstrating a way of injecting meaning into syntactic parses. Whenever START runs into syntactic ambiguity in the middle of parsing and has to make a decision, we consult with ConceptNet for knowledge that helps START to make such a decision.</li> <li>- Collaborators: Sue Felshin</li> </ul> <p><b>Modularized Question Answering Informed by Large-Scale Commonsense</b></p> <ul style="list-style-type: none"> <li>- For each selected question from the AI2 Reasoning Challenge (ARC) dataset, we first extract concepts from the sentences that lead to the question, and then apply ConceptNet and Deep Relationship Discovery (DRD) to expand on both those concepts and the question. Now that both the context and the question are more <i>meaningful</i>, we turn to the answer choices and determine the most likely one.</li> <li>- Collaborators: Pedro Colon-Hernandez, Henry Lieberman</li> </ul>
RESEARCH ACTIVITIES	<p><b>Presentations</b></p> <ul style="list-style-type: none"> <li>- (Aug 2019) Taking story-understanding systems to the real world via better parsing. (<i>Story-Enabled Intelligence Workshop</i>, Advances in Cognitive Systems 8 (ACS-8)).</li> <li>- (May 2019) The Genesis Enterprise: Taking artificial intelligence to another level via a computational account of human story understanding. (LISP Group Meeting)</li> <li>- (Oct 2018) On <i>Learning with Latent Language</i> and <i>Imagined Visual Representations as Multimodel Embeddings</i>. (Natural Language Processing course project, fall 2018)</li> <li>- (Apr 2018) On Hinton’s Capsule Net. (Machine Learning course project, spring 2018)</li> </ul>
WORKING EXPERIENCE	<p><b>CELOP, Boston University</b> Apr 2019 – May 2019</p> <ul style="list-style-type: none"> <li>- Co-instructor, Computer Science Course for KAUST Foundation-Year Program</li> </ul> <p><b>Ochsner Health System</b> Jan 2016 – May 2016</p> <ul style="list-style-type: none"> <li>- Research volunteer, Ochsner BITE Pain Research study at The Center for Nursing Research</li> </ul> <p><b>Tulane University</b></p> <ul style="list-style-type: none"> <li>- Undergraduate research assistant, Molix Lab Sep 2015 – May 2016 <ul style="list-style-type: none"> <li>- Research Topic: User studies on Patient-Physician Interaction</li> </ul> </li> <li>- Undergraduate research assistant, Robinson Lab Jan 2015 – May 2015 <ul style="list-style-type: none"> <li>- Research Topic: Tau protein identification in Alzheimer’s Onset</li> </ul> </li> </ul>

TEACHING ASSISTANT EXPERIENCE	<ul style="list-style-type: none"> <li>- CS101 A1 Introduction to Computer Science, Perry Donham (Fall, 2017)</li> <li>- CS132 A1 Geometric Algorithms, Vahid Azadeh-Ranjbar (Spring, 2018)</li> <li>- CS542 A1 Machine Learning, Sang “Peter” Chin (Summer, 2018)</li> <li>- CS132 A1 Geometric Algorithms, Abbas Attarwala (Fall, 2018)</li> <li>- CS132 A1 Geometric Algorithms, Abbas Attarwala (Spring, 2019)</li> <li>- CS391 E1 Foundations of Data Science, Dora Erdos (Fall, 2019)</li> <li>- CS101 A1 Introduction to Computer Science, Perry Donham (Spring, 2020)</li> </ul>	
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>- Python (PyTorch, TensorFlow 2), Java, C, ATS, Scheme, MATLAB</li> <li>- <math>\LaTeX</math>, HTML</li> </ul>	
EDUCATION	<p>B.S. Mathematics (cum laude), Tulane University  - Annual recipient of Dean’s Honor Scholarship</p>	Sep 2013 – May 2017
LANGUAGES	Mandarin Chinese (Native)	