

YUHUAN JIANG

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EDUCATION

- **University of Pittsburgh, Pittsburgh, PA, USA** *Aug. 2014 – Dec. 2017 (expected)*
M.S. student in Computer Science
- **Chongqing University, Chongqing, China** *Sep. 2010 – Jul. 2014*
B.Eng. in Software Engineering

PROJECTS

- **Collection.ts** ^[TypeScript], *ongoing current project* *Mar. 2017 - Present*
 - Designed and implemented a generic collection library for TypeScript from scratch. Supports sequences (array, linked list), maps (hash map, list map), sets (hash set, list set) currently.
 - Implemented lazily evaluated higher-order functions (map, filter, flatMap, etc.) at various abstraction levels.
- **Entity-Level Sentiment Inference System** ^[Scala], *research project* *Dec. 2015 – Jan. 2017*
 - Built a GUI visualizer for a sentiment corpus using ScalaFX and Graphviz.
 - Designed factor graph models to infer sentiments toward entities in opinionated sentences.
 - Designed logic factors and implicature factors to enable joint training of semantics and sentiments.
 - Implemented the system and conducted experiments by modifying an open-source graphical model library.
- **Content-based User Similarity Model** ^[Java, Python], *course team project* *Mar. 2015 – Apr. 2015*
 - Implemented a model for detecting similar users in the Yelp Dataset, based on topic distributions extracted by applying latent Dirichlet allocation (LDA) to each user's restaurant reviews.
 - Conducted extrinsic performance evaluation by implementing a simple restaurant recommendation system using the user similarity model.
- **MiniGoogle** ^[Java], *individual course project* *Nov. 2014 - Dec. 2014*
 - Built a simple TCP-based map-reduce framework for document indexing and searching.
 - Implemented a client that issues indexing and searching requests, and a server that orchestrates helpers for mapping, reducing, and searching tasks, with status monitor for handling failed helpers.
 - Achieved helper workload optimization based on corpus statistics.
- **Pigeon** ^[C#], *team project for Microsoft Imagine Cup 2013* *Feb. 2013 – Apr. 2013*
 - Built a Windows Phone mobile application which facilitates meetups in real-life locations.
 - Implemented a modern user interface using XAML.
 - Implemented real-time GPS location sharing, and instant text/image/voice messaging using XMPP.
 - Designed indoor navigation, which allows users to create, share, and follow indoor paths computed from various sensors provided by the mobile device.

EXPERIENCE

- **Teaching Assistant, University of Pittsburgh** *Aug. 2014 – present*
Led recitation lessons for Data Structures. Taught a few class lectures for Natural Language Processing.
- **Student Researcher, University of Pittsburgh** *May 2015 – Jan. 2017*
Conducted research on entity-level sentiment analysis. *Temp. advisors: Prof. Janyce Wiebe, Prof. Rebecca Hwa.*
- **Student Researcher Intern, Simon Fraser University, Canada** *Jul. 2013 – Sep. 2013*
Participated in extending the code of the open-source Moses system to conduct machine translation experiments.

AWARDS

- Arts & Science Graduate Fellowship, *University of Pittsburgh* *May 2014*
- Microsoft Imagine Cup 2013 Final, China Section (Second Award) *Apr. 2013*

SKILLS

- **Programming languages:** Scala, Java, TypeScript, Python, C#, C/C++, Objective-C, SQL, MATLAB
- **Web development:** HTML/JavaScript/CSS, Node.js, Electron, Express, jQuery, React