

Xinyi Wang (Joyce) 王心怡

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- PROFILE
- **software engineer with an interdisciplinary background**
 - **passionate about applying human-centered technological solutions to real-world problems**

EDUCATION **Carnegie Mellon University** Grad. May 2020
Bachelor of **Computer Science and Art**, GPA: 3.79; Dean's List 7 semesters

WORK EXPERIENCES **Disney Research (Imagineering)** Lab associate, summer 2018

- developed NLP-powered chatbot which assists non-technical artists to create AI agents
- created UI prototypes (Javascript) and API's (Python) to interface with AI engine
- conducted user tests and received high scores for ease-of-use
- **first-author paper** accepted as extended abstract to ACM IVA 2019; presented in Paris

Microsoft Explorer internship (program management/software development rotation), summer 2017

- developed internal automation tool in C# for diagnosing licensing failures to reduce debugging time
- created requirements, designs, and test plans as part of the software development life cycle

Human-Computer Interaction Institute, CMU research assistant, summer 2016

- designed and developed Android application for collecting Twitter metadata (Java)

School of Computer Science, CMU teaching assistant for Intro to Programming (15-112), fall 2016

- led recitations, graded homework, mentored students on term projects

PROJECTS **How Opinion News Articles Influence Discourse on Twitter (independent research)**, 2018-2019

- used both quantitative and qualitative methods to study Twitter user's reactions towards opinion news (sentiment analysis, social network analysis, case studies)
- collected Twitter data around six established news agencies over 1-month period
- produced research paper and presented poster to the Knight Foundation

Wikipedia Discourse Analysis (Machine Learning class project, A grade) spring 2018

- explored the predictability of editor success on Wikipedia Talk pages (Weka)
- designed linguistic feature space from 64,692-instance dataset (extraction using Python and LightSide)
- statistically significant improvement from baseline (accuracy 0.2798 to 0.3570; kappa -0.0122 to 0.0096)

COURSEWORK Parallel and Sequential Data Structures and Algorithms, Graduate Machine Learning, Applied Machine Learning, Computer Systems, Great Theoretical Ideas in CS, Functional Programming, Imperative Computation
Ongoing: Methods in Statistics and Data Science, Design Research Methods

SKILLS **software engineering**: Java, Python, R, C++, c#, Javascript, HTML/CSS, Node.js, Django
art/design: rapid prototyping, design research methods, Unity, Processing/p5.js
languages: Mandarin (native proficiency), French (preliminary proficiency)

RECOGNITIONS AND GRANTS **ACM Intelligent Virtual Agents** Conference (first-author extended abstract), July 2019, Paris
USITT-USA Prague Quadrennial, Emerging Designer Exhibit, June 2019, Prague
The Martin Luther King, Jr. Day Writing Awards College Prose Division (Second Place), 2018
Frank-Ratchye Fund for Arts at the Frontier, 2017
Small Undergraduate Research Grant, 2017