

Yuexi (Tracy) Chen (She/Her)

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Education

University of Maryland (UMD), College Park

01/2019 - present

Ph.D., Computer Science

08/2017 - 12/2018

Non-Degree, Chemistry and Biochemistry

Current Research: human-computer interaction, responsive design
(Previous research: biological data visualization, bioinformatics)

Selected Courses: Advanced Numerical Optimization · Algorithms for Probabilistic and Deterministic Graphical Models · Computational Linguistics · Computer Processing of Pictorial Information · Information Visualization · Interactive Data Analytics

University of Science and Technology of China (USTC), Hefei

09/2013 - 07/2017

B.S., Materials Science and Engineering (Chemistry track)

Selected Courses: Calculus I/II · Computer Programming · Computational Methods · Equations of Mathematical Physics · Function of Complex Variables · Linear Algebra · Probability and Statistics · Quantum Physics

Professional Experience

05/2021 - 08/2021

Adobe Research, Maryland

Research Intern (Document Intelligence)

06/2018 - 08/2018

Science Gateways Community Institute (a collaboration of [seven universities](#) funded by NSF to facilitate online user interfaces of scientific software)

Software Engineering Intern

Publications

[1] Itay Sason, **Yuexi Chen**, Mark DM Leiserson, and Roded Sharan. A mixture model for signature discovery from sparse mutation data. *International Conference on*

Research in Computational Molecular Biology (RECOMB), 2020 [[paper](#)] [[code](#)].

- [2] **Yuexi Chen**, Cheol Jeong, Alexey Savelyev, Susan Krueger, Joseph E Curtis, Emre H Brookes, and David Fushman. Rotdif-web and altens: Genapp-based science gateways for biomolecular nuclear magnetic resonance (nmr) data analysis and structure modeling. *Gateways*, 2019 [[paper](#)] [[demo](#)].

Projects

- [1] ScholarInsight: a Chrome Browser Extension for Google Scholar Profiles. [[demo](#)][[code](#)]
[2] Time Waits for No One: How Olympic Athletes' Ages Correlate with Performance.[[demo](#)][[code](#)]

Teaching

Spring'21	Single Page Web Application Development With JavaScript (CMSC389N), UMD
Fall'19, Spring'20	Organization of Programming Languages (CMSC330), UMD
Spring'19, Fall'20	Introduction to Data Science (CMSC320), UMD

Awards

2020	Young Professional of the Year Award, Science Gateways Community Institute
2019	Dean's Fellowship, Department of Computer Science, UMD
2018	Computation and Mathematics for Biological Networks (COMBINE) Fellowship, UMD

Technical Skills

Programming Languages: JavaScript, Python, R, SQL, OCaml, Rust
Front-end: jQuery, React, Fabric, D3, HTML5/CSS3, Bootstrap
Machine learning: TensorFlow, PyTorch, OpenCV, scikit-learn

Last updated: August 16, 2021