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Yuexi (Tracy) Chen

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EDUCATION

University of Maryland (UMD), College Park

Ph.D., Computer Science

2023 (expected)

Advisers: Prof. Max Leiserson and Prof. David Fushman

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

2017

B.S., Materials Science and Engineering

CURRENT RESEARCH

Bioinformatics and statistical machine learning.

Biology keywords: Cancer genomics, Immunotherapy Response, Mutational Signatures.

Methods keywords: Graphical Probabilistic Models, MCMC, Variational Inference.

PUBLICATIONS

Itay Sason, **Yuexi Chen**, Max Leiserson, Roded Sharan. *A mixture model for signature discovery from sparse mutation data.* RECOMB 2020, Padua, Italy

PRESENTATIONS

[Talk] **Yuexi Chen**, Cheol Jeong, Alexey Savelyev, Susan Krueger, Joseph Curtis, Emre Brookes, David Fushman. *ROTDIF-web and ALTENS: GenApp-based Science Gateways for Biomolecular NMR Data Analysis and Structure Modeling.* Gateways 2019, San Diego, CA

[Poster] **Yuexi Chen**, Alexey Savelyev, Emre Brookes, David Fushman. *ROTDIF-Web: A GenApp Generated Science Gateway for Comprehensive Analysis of Biomolecular NMR Relaxation Data* Gateways 2018, Austin, TX.

TEACHING

Organization of Programming Languages (CMSC330)

Fall 2019, Spring 2020

Course instructors: Dr. Anwar Mamat and Dr. Roger Eastman

Introduction to Data Science (CMSC320)

Spring 2019

Course instructor: Dr. Hector Corrada Bravo

AWARDS

Dean's Fellowship, Department of Computer Science, UMD

2019 - 2020

COMBINE (Computation and Mathematics for Biological Networks) Fellowship, UMD

2018 - 2019

Outstanding Students Scholarship (Gold Award), USTC

2015

SERVICE

Student Member, International Society of Computational Biology (ISCB)

2020 - present

Coordinator, Undergraduate Summer Internship Program, Center for Bioinformatics and Computational Biology (CBCB), UMD

2019

Volunteer, International Conference on Research in Computational Molecular Biology (RECOMB)

2019

Professional Development Director, COMBINE Student Committee, UMD

2018 - 2019

Volunteer, Graduate Admissions Committee, Department of Computer Science, UMD

2020

ADVISING EXPERIENCE

Cameron Shahmirzadi (undergraduate), UMD CS honors program.

2019

SOFTWARE

ROTDIF-Web: An online interactive structural biology data analysis tool.

2018

Web application: <http://rotdif.genapp.rocks/rotdif/>

Source: <https://genapp.rocks/wiki/browser/rotdif>

TECHNICAL SKILLS

Advanced: Python, R

Intermediate: OCaml, Ruby, SQL, MATLAB, JavaScript.