

CURRICULUM VITAE

YASAMIN TABATABAEE

CONTACT INFORMATION

Department of Computer Science
University of Illinois at Urbana-Champaign
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EDUCATION

- Ph.D. in Computer Science, University of Illinois at Urbana-Champaign, 8/2021-Present
Advisor: Prof. Tandy Warnow, GPA: 4.0/4.0
- B.Sc. in Computer Engineering, Sharif University of Technology, Tehran, Iran, 9/2016-1/2021,
GPA: 19.11/20.00 (3.98/4.0)

PUBLICATIONS

- **Y. Tabatabaee**, C. Zhang, T. Warnow and S. Mirarab. (2023). Phylogenomic branch length estimation using quartets. *Bioinformatics*, Vol. 39, Issue Supplement 1, pages i185-i193, Special issue for ISMB/ECCB 2023 [[paper](#)][[code](#)][[data](#)]
- **Y. Tabatabaee**, S. Roch and T. Warnow. (2023). Statistically consistent rooting of species trees under the multispecies coalescent model. *International Conference on Research in Computational Molecular Biology (RECOMB 2023)* [[paper](#)][[code](#)][[data](#)]
- J. Willson, **Y. Tabatabaee**, B. Liu, and T. Warnow. (2023). DISCO+QR: rooting species trees in the presence of GDL and ILS. *Bioinformatics Advances*, Volume 3, Issue 1, vbad015, Special issue for ISCB-LA 2022 [[paper](#)][[data](#)]
- **Y. Tabatabaee**, K. Sarkar, and T. Warnow (2022). Quintet Rooting: rooting species trees under the multi-species coalescent model. *Bioinformatics*, Vol. 38, Supplement 1, pages i109-i117, Special issue for ISMB 2022 [[paper](#)][[code](#)][[data](#)]
- D. Lin, **Y. Tabatabaee**, Y. Pote and D. Jevdjic. (2022). Managing reliability skew in DNA storage. *Proceedings of the 49th Annual International Symposium on Computer Architecture (ISCA'22)*. pages 482–494. [[paper](#)]

Preprints

Note: * indicates equal contribution.

- M. Park*, **Y. Tabatabaee***, V. Ramavarapu*, B. Liu, V. Pailodi, R. Ramachandran, D. Korobskiy, F. Ayres, G. Chacko, and T. Warnow. (2023) Well-Connected Communities in Real-World Networks [[preprint](#)][[code](#)][[data](#)]

HONORS & AWARDS

- UIUC C.L. and Jane Liu Award, 3/2023
- **Travel Awards:** RECOMB 2023 Travel Fellowship, UIUC Graduate College Conference Presentation Award 2023, ISMB 2022 Virtual Fellowship
- Iranian National Elites Foundation (INEF) Fellowship, Tehran, Iran, 9/2016-9/2020
- Silver Medal in 33rd Iranian National Mathematical Olympiad, Tehran, Iran, 9/2015
- Bronze Medal in 2nd Iranian National Geometry Olympiad (IGO), Tehran, Iran, 9/2015
- Bronze Medal in 3rd European Girls' Mathematical Olympiad (EGMO), Antalya, Turkey, 4/2014
- Member of the National Organization for Development of Exceptional Talents (NODET), Tehran, Iran, 9/2009-9/2016

RESEARCH EXPERIENCE

- Graduate Research Assistant, Department of Computer Science, University of Illinois at Urbana-Champaign, 8/2021-Present
- Research Intern, School of Computing, National University of Singapore, Singapore, 7/2019-9/2019
- Undergraduate Research Assistant, Sharif University of Technology, Bioinformatics Research Laboratory, Tehran, Iran, 6/2018-9/2018

TEACHING EXPERIENCE

- Teaching Assistant, University of Illinois at Urbana-Champaign
 - * Fall 2022 and 2023, CS 581: Algorithmic Genomic Biology, Instructor: Prof. Warnow
- Teaching Assistant, Sharif University of Technology, Tehran, Iran
 - * Fall 2020, CE 717: Machine Learning, Instructor: Prof. Soleymani
 - * Spring 2020, CE 254: Design of Algorithms (co-head TA), Instructor: Prof. Sharifi Zarchi
 - * Fall 2019, CE 254: Linear Algebra, Instructor: Prof. Motahari
 - * Spring 2018, CE 254: Data Structures & Algorithms, Instructor: Prof. Sharifi Zarchi
 - * Spring 2018, CE 115: Discrete Structures, Instructor: Prof. Abam
- Mathematics Instructor, Farzanegan High School, Tehran, Iran, 9/2016-6/2017
 - * Teaching Combinatorics and Geometry to students preparing for Iranian National Mathematical Olympiad

TALKS

- "Phylogenomic branch length estimation using quartets"
31th Conference on Intelligent Systems for Molecular Biology (ISMB), July 27, 2023.
- "Statistically consistent rooting of species trees under the multispecies coalescent model"
27th Conference on Research in Computational Molecular Biology (RECOMB), April 17, 2023.

- "Quintet Rooting: rooting species trees under the multi-species coalescent model"
30th Conference on Intelligent Systems for Molecular Biology (ISMB), July 13, 2022.

Last updated: August 25, 2023