

YA-WEI EILEEN LIN

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EDUCATION

Technion, Israel Institute of Technology, Haifa, ISRAEL <i>Doctor of Philosophy, Electrical and Computer Engineering</i> Supervised by Prof. Ronen Talmon	06/2020 – Expected 09/2024
Technion, Israel Institute of Technology, Haifa, ISRAEL <i>Master of Science, Electrical and Computer Engineering</i> Supervised by Prof. Ronen Talmon	10/2017 – 06/2020 Summa Cum Laude
National Cheng Kung University (NCKU), Tainan, TAIWAN <i>Bachelor of Science, Electrical Engineering</i>	09/2013 – 06/2017 GPA 3.9/4.0

RESEARCH INTERESTS

Geometric learning, Optimal transport, Hyperbolic geometry, Diffusion geometry, Riemannian geometry, Graph neural networks

PUBLICATIONS

1. **Y.-W. E. Lin**, Y. Kluger, R. Talmon, "Hyperbolic Diffusion Procrustes Analysis for Intrinsic Representation of Hierarchical Data Sets", ICASSP 2024
2. **Y.-W. E. Lin**, R. R. Coifman, G. Mishne, R. Talmon, "Hyperbolic Diffusion Embedding and Distance for Hierarchical Representation Learning", ICML 2023
3. **Y.-W. E. Lin**, Y. Kluger, R. Talmon, "Hyperbolic Procrustes Analysis Using Riemannian Geometry", NeurIPS 2021
4. **Y.-W. E. Lin**, T. Shnitzer, R. Talmon, F. Villarroel-Espindola, S. Desai, K. Schalper, and Y. Kluger, "Graph of graphs analysis for multiplexed data with application to imaging mass cytometry", PLoS computational biology, Vol. 17, No. 3, e1008741, 2021
5. S. Desai, S. Salahuddin, R. Yusuf, K. Ranjan, J. Gu, **Y.-W. E. Lin**, R. Talmon, Y. Kluger, H. Zhao, K. Schalper, B. Emu, "Spatial Analysis Reveals Impaired Immune Cell Function within the Tumor Microenvironment of HIV-associated Non-small Cell Lung Cancer." medRxiv (2023): 2023-10.
6. Villarroel-Espindola^{1*}, S. Desai^{1*}, **Y.-W. E. Lin***, M. F. Sanmamed, R. Talmon, T. Shnitzer, A. Porciuncula¹, B. S. Henick, J. Zugazagoitia, J. Patsenker, D. E. Carvajal-Hausdorf, R. R. Montgomery, R. S. Herbst, D. L. Rimm, L. Chen, Y. Kluger, and K. A. Schalper, "Deep spatial and single-cell microenvironment analysis identifies T-cell and tumor differentiation programs associated with sensitivity to PD-1 axis blockers in NSCLC", submitted

SCHOLARSHIPS & AWARDS

Schmidt Postdoc Award for Women in Mathematical and Computing Sciences	02/2024
Andrew and Erna Finci Viterbi Graduate Fellowship's Award Technion	10/2023 – 09/2024
Faculty Excellence Scholarship Technion	03/2023, 10/2021
VATAT Prize for Students of the Data Sciences Research Technion	10/2021
Freud Award Technion	05/2021

Fine Fellowship Technion	10/2020 – 09/2021
The Lady Davis Fellowship Technion	10/2017 – 09/2018

TEACHING EXPERIENCE

Geometric Deep Learning Teaching assistant — Department of Computer Science, Technion	03/2022 – Present
Introduction to Data Processing and Representation Teaching assistant — Department of Computer Science, Technion	10/2021 – Present
Geometric Learning (Networks, Graphs and Signal Processing) Teaching assistant — Department of Electrical and Computer Engineering, Technion	10/2020 – Present
Signal and Image Processing Lab (SIPL) Undergraduate project supervisor — Department of Electrical and Computer Engineering, Technion	03/2019 – Present
Advanced Topics in Deep Learning Teaching assistant — Department of Computer Science, Technion	10/2021 – 03/2022
Signal, Image and Data Processing Teaching assistant — Department of Computer Science, Technion	10/2019 – 09/2021
Theoretical Topics in Deep Learning Teaching assistant — Department of Electrical and Computer Engineering, Technion	10/2019 – 03/2020
Image Processing and Analysis Teaching assistant — Department of Electrical and Computer Engineering, Technion	08/2019, 08/2018