




# YA-WEI EILEEN LIN

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## EDUCATION

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

- Y.-W. E. Lin**, Y. Kluger, R. Talmon, "Hyperbolic Diffusion Procrustes Analysis for Intrinsic Representation of Hierarchical Data Sets", ICASSP 2024
- Y.-W. E. Lin**, R. R. Coifman, G. Mishne, R. Talmon, "Hyperbolic Diffusion Embedding and Distance for Hierarchical Representation Learning", ICML 2023
- Y.-W. E. Lin**, Y. Kluger, R. Talmon, "Hyperbolic Procrustes Analysis Using Riemannian Geometry", NeurIPS 2021
- 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
- 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.
- Villarroel-Espindola<sup>1\*</sup>, S. Desai<sup>1\*</sup>, **Y.-W. E. Lin\***, M. F. Sanmamed, R. Talmon, T. Shnitzer, A. Porciuncula<sup>1</sup>, 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

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

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

## TEACHING EXPERIENCE

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