



# Noam Smilovich

✉ [Noam.Smilovich@ttu.edu](mailto:Noam.Smilovich@ttu.edu)  
LinkedIn: [in/Noam-Smilovich](https://in>Noam-Smilovich)  
GitHub: [NoamSmilovich](https://github.com>NoamSmilovich)  
Website: [noamsmilovich.github.io](https://noamsmilovich.github.io)

## EDUCATION

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### MSc in Software Engineering

*San José State University, San José, CA*

2022 – 2024

- Thesis: Data-Driven Control of Acoustic Waves Using Movable and Flexible Scatterers.
- Thesis Advisor: Dr. Stas Tiomkin

### MSc in Electrical and Electronics Engineering

*Tel Aviv University, Tel Aviv, Israel*

2017 – 2020

- Thesis: Ka-Band Power Amplifier and Digitally Controlled Attenuator in CMOS 130nm.
- Thesis Advisor: Prof. Eran Socher

### BSc in Electrical and Electronics Engineering

*Tel Aviv University, Tel Aviv, Israel*

2014 – 2018

## AWARDS

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### Graduate Teaching Assistant of the Year

2025

- Awarded by the Department of Computer Science, Whitacre College of Engineering at Texas Tech University for outstanding performance as a Graduate Teaching Assistant.

### Outstanding Thesis Award

2025

- University-wide award for the most outstanding master's thesis published in 2024–2025, granted by the College of Graduate Studies at San José State University.
- Award amount: \$1,000. Presented at the University Commencement Ceremony.

### Research, Scholarship, and Creative Activity (RSCA) Fellowship

2024

- A competitive award for scholarly and creative activities, College of Engineering at San Jose State University.
- Award amount: \$3,000.

## PUBLICATIONS AND PRESENTATIONS

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### Publications

- N. Smilovich, "Data-driven control of acoustic waves using movable and flexible scatterers," M.Sc. thesis, San Jose State Univ., San Jose, CA, 2024.
- T. Shah\*, N. Smilovich\*, S. Gerges, F. Amirkulova, S. Tiomkin, "Acoustic wave manipulation through sparse robotic actuation," in *Proceedings of the IEEE International Conference on Robotics and Automation*, 2025.
- N. Smilovich, "Ka-band power amplifier and digitally controlled attenuator in CMOS 130nm," M.Sc. thesis, School of Electr. Eng., Tel Aviv Univ., Tel Aviv, Israel, 2020.
- S. Londhe, N. Smilovich, S. Avner, N. Bar-Helmer, S. Jameson, and E. Socher, "34–42GHz CMOS transceiver frontend for versatile arrays," 2020 15th European Microwave Integrated Circuits Conference (EuMIC), Utrecht, Netherlands, 2021, pp. 73–76.

### Presentations

- T. Shah\*, N. Smilovich\*, S. Gerges, F. Amirkulova, S. Tiomkin, "Acoustic wave manipulation through sparse robotic actuation," poster presented at Research Showcase during Board meeting at the CS Department, Texas Tech University, Oct 2024, based on the corresponding paper.

## **EXPERIENCE**

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<b>Graduate Teaching Assistant</b> <i>Department of Computer Science, Texas Tech University, Lubbock, TX</i>	2025
<ul style="list-style-type: none"><li>Senior Capstone Course (CS 4366): Managed course logistics and project execution for 75 students, including check-in meetings between student groups and local partner company; oversaw all grading and milestone tracking.</li><li>Generative AI (CS 5331/4331): Contributed directly to course content development by preparing a significant portion of lecture slides and designing a homework assignment; responsible for grading and providing detailed feedback.</li></ul>	
<b>Research Assistant</b> <i>Computational Intelligence, Control &amp; Information Lab, Texas Tech University, Lubbock, TX</i>	2025
<ul style="list-style-type: none"><li>Research hybrid dynamical systems in robotics, focusing on information-theoretic control and learning-based methods to analyze and optimize behavior in non-differentiable, contact-rich environments.</li></ul>	
<b>Research Assistant</b> <i>Computational Intelligence Lab, San Jose State University, San José, CA</i>	2024
<ul style="list-style-type: none"><li>Research and development of machine learning approaches for controlling acoustic wave propagation, incorporating state-of-the-art AI architectures and predictive modeling techniques.</li></ul>	
<b>Instructional Student Assistant – Data Structures and Algorithms in C++</b> <i>College of Engineering, San Jose State University, San José, CA</i>	2023
<ul style="list-style-type: none"><li>Provided instructional support for the course by grading assignments, addressing student inquiries, and managing grade appeals.</li></ul>	
<b>Media Architecture Systems Engineering Intern</b> <i>Micron Technology, San José, CA</i>	2023
<ul style="list-style-type: none"><li>Developed system architecture validation tools for NAND flash memory command sequences, improving reliability and testing efficiency.</li></ul>	
<b>System Integration Engineer – 5G Modem</b> <i>Qualcomm, Israel</i>	2020 – 2021
<ul style="list-style-type: none"><li>Contributed to system integration and validation efforts for 5G modem development, focusing on performance optimization and cross-functional feature implementation.</li></ul>	
<b>Research Assistant</b> <i>Faculty of Engineering, Tel Aviv University, Israel</i>	2017 – 2020
<ul style="list-style-type: none"><li>Designed RFICs as part of a research group, with circuits sent for tape-out, followed by post-fabrication testing and characterization in the university's high-frequency integrated circuits lab.</li></ul>	
<b>Lab Instructor - Analog Circuits Lab</b> <i>Faculty of Engineering, Tel Aviv University, Israel</i>	2017 – 2020
<ul style="list-style-type: none"><li>Provided instructional support by conducting tutorials, grading assignments, addressing student inquiries, and managing grade appeals.</li></ul>	

## **VOLUNTEER EXPERIENCE**

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<b>Research Mentor</b> <i>San Jose State University, San José, CA</i>	2024
<ul style="list-style-type: none"><li>Conducted instructional tutorials and participated in weekly mentoring sessions to guide high school and community college students on a project at the intersection of acoustics research and machine learning.</li></ul>	

## **OPEN-SOURCE CONTRIBUTIONS**

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<b>Waves.jl</b>	2024
<ul style="list-style-type: none"><li>Enhanced the Waves.jl simulator and its deep learning model by extending configuration options, improving flexibility, and supporting more diverse use cases in wave physics simulations.</li></ul>	