

DANIEL KADYROV

daniel.kadyrov@gmail.com

New York, NY

EDUCATION

Stevens Institute of Technology, Charles V. Schaefer, Jr. School of Engineering & Science

Doctor of Philosophy Ocean Engineering, 2024 (Ph.D. Candidate, 2022)

Master of Science Computer Science (Machine Learning and Data Science), 2021

Binghamton University of New York, Watson School of Engineering

Master of Science Mechanical Engineering (Acoustics and Dynamic Systems), 2016

Bachelor of Science Mechanical Engineering, 2015

TECHNICAL EXPERIENCE

National Urban Security Technology Laboratory - Department of Homeland Security

General Engineer - CUAS

May 2024 – Present

New York, NY

Sensor Technology & Applied Research Center, Stevens Institute of Technology

Research Engineer - Acoustics, CUAS, Sensors, and Software Development

May 2019 – December 2023

Hoboken, NJ

Weidlinger Applied Science, Thornton Tomasetti

Senior Engineer - Acoustics and Software Development

January 2017 – November 2018

New York, NY

Acoustic Core, Binghamton University

Research Assistant - Acoustics

June 2014 – August 2014

Binghamton, NY

TEACHING EXPERIENCE

Pace University

Adjunct Professor

September 2023 - Present

New York, NY

Columbia University

Pre-College Instructor

June 2023 - July 2024

New York, NY

ScholarStem Tech Builders Club

STEM Group Teacher (6-12 years old)

September 2022 - June 2023

New York, NY

Eleanor Roosevelt High School

STEM Group Advisor and Tutor

September 2022 – Present

New York, NY

Chess at Three

Individual and Group Tutor (3-10 years old)

January 2022 – June 2023

New York, NY

MIDI Course and Lab, Harpur College, Binghamton University

Teaching Assistant, Lab Assistant

September 2012 – May 2015

New York, NY

WHRW 90.5 FM Radio Station

General Manager & President, Broadcast Engineer, former Public Affairs Director

September 2011 – May 2015

Binghamton, NY

New Explorations into Science, Technology, and Math (NEST+M)

Individual and Group Tutor (Middle and High School Mathematics, Physics, History)

September 2008 – May 2011

New York, NY

PUBLICATIONS

Competitions:

- DHS Designing Actionable Solutions for a Secure Homeland (3rd place, 2024)
- DHS Countering Emerging Threats to Critical Infrastructure Hackathon (1st place, 2022)

Conferences:

- Artificial Intelligence Meets Science (AIMS) Conference (New York, 2023)
- Maritime Risk Symposium (Online, 2022) - Semi-Finalist
- Acoustic Society of America (Denver, 2022)

Publications (First Author):

- D. Kadyrov, A. Sutin, N. Sedunov, A. Sedunov, and H. Salloum, "Vibro-Acoustic Signatures of Various Insects in Stored Products," *Sensors*, vol. 24, no. 20, Art. no. 20, Jan. 2024
- D. Kadyrov, A. Sedunov, N. Sedunov, A. Sutin, H. Salloum, and S. Tsyuryupa, "Improvements to the Stevens Drone Acoustic Detection System," *Proc. Mtgs. Acoust.*, vol. 46, no. 1, p. 045001, May 2022

Publications (Co-author):

- H. Salloum, A. Sutin, N. Sedunov, A. Sedunov, and D. Kadyrov, "Low-cost multimodal integrated marine surveillance system," in *2022 IEEE International Symposium on Technologies for Homeland Security (HST)*, Nov. 2022, pp. 1–6.
- A. Sedunov *et al.*, "Stevens Passive Acoustic Detection System (spades-2) and Its Prospective Application for Windfarm Underwater Noise Assessment," *Proc. Mtgs. Acoust.*, vol. 46, no. 1, p. 070001, May 2022

SKILLS

Certifications: FAA107 Remote Pilot (2023), OSHA 10 (2017), Suspended Scaffolding (2017), ME FE (2017)

Professional Organizations: Acoustic Society of America (ASA), Academy of Model Aeronautics (AMA)

Programming Languages: Python, Javascript, Java, R, Fortran, MATLAB, LaTeX, JavaScript, HTML/CSS

Programming Platforms: Django, Flask, Node, React, Express, MongoDB, SQL, Bootstrap, Gulp, Redis, Tensorflow

Software Applications: Ableton Live, Adobe CS, AutoCAD, ArcGIS, Creo Pro/E, LabView, LS-DYNA, Microsoft Office

Foreign Languages: English (native, technical), Russian (fluent, technical), and Spanish (conversational)

Interests: Aerial Acrobatics, Biking, Chess, Cooking, Drones, Music (Jazz Piano, Production), Surfing, Yoga