

Nikola Janjušević

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY

Ph.D Candidate in Electrical and Computer Engineering Projected May 2024
Advisor: Professor Yao Wang, NYU Video Lab, NYU Wireless Lab
K-12 STEM Fellowship 2019
Telephonics Corporation Research Fellowship 2020

The Cooper Union for the Advancement of Science and Art, New York, NY

Bachelor of Engineering, Electrical Engineering, Magna Cum Laude 2015 - 2019
Minor in Computer Science
Half-Tuition Scholarship, Innovator's Merit Scholarship 2015 - 2019
Radio Club of America Scholarship Award 2019

RESEARCH EXPERIENCE

R3Cap, The Cooper Union Fall 2018 - Spring 2019

- 3D Non-Line-of-Sight Motion Capture of RFID tags with antenna beamforming
- Designed implementation of DSP chain on FPGA with group members
- Prototyped custom RF-Frontend on a mixed-signal PCB

Graph Representation of Fonts for Deep Learning, The Cooper Union Fall 2018

- Explored strategies for glyph classification with Deep Learning
- Developed novel technique of glyph representation by graph adjacency matrices
- Improved glyph classification accuracy over raster representation

WORK EXPERIENCE

Senior Instructor and Curriculum Designer Summer 2019

NYU Tandon Summer STEM Program

- Led design of two-week introductory machine-learning course for HS students
- Guided students from Linear Algebra to successful projects in Artificial Neural Networks
- Lecture material and assignments available at <https://github.com/nikopj/SummerML>

Junior Application Engineer Summer 2018

Mini-Circuits, Brooklyn, NY

- Developed curricula for the UVNA-63 programmable vector network analyzer
- Authored and co-authored application-notes on “Error Correction” and “Calibration Standards”
- Designed educational lab experiments to supplement application-notes

Teaching Assistant Summer 2016, 2017

The Cooper Union Summer STEM Program

- Led six-week digital logic design course of 35 High School students
- Lectured on digital logic and engineering design principles
- Supervised student's work and mentored group projects

SKILLS

Languages	English (Native), Mandarin (Full Working Proficiency), Serbian (Intermediate)
Computer Languages	C, C++, Python
Software & Tools	MATLAB, L ^A T _E X, PyTorch, TensorFlow