

Nicolas Ouporov

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EDUCATION

Columbia University

2020 – 2024

- BA in Computer Science-Math, Economics
- Dean's List. GPA: 4.0
- Extracurricular: Columbia Organization of Rising Entrepreneurs (Operating Committee Leader), Columbia Creative Machines Laboratory (Student Researcher)

Alexander W. Dreyfoos School of the Arts

2016 – 2020

- High School Diploma
- Graduated with 4.0 GPA, 4.96 HPA, SAT: 1580/1600
- Extracurriculars: Dance Honors Society (President), Artists Reaching Out to Society (Vice-President), Mu Alpha Theta, National Honors Society

EXPERIENCE

Research Assistant, Columbia Creative Machines Lab

2021 – Present

- Mentor: Joni Mici, PhD Candidate. Principal Investigator: Hod Lipson PhD
- Developing a multi-material digital manufacturing technique that uses layers of "voxels" - discrete building blocks - that are moved by electrostatic arrays for scalable, parallel assembly.
- Prototyping new parts for the 3D assembler in SolidWorks, running critical diagnostic tests, and optimizing electrostatic grippers with COMSOL analysis
- Assisting in experiment execution, data analysis, and manuscript writing

Company Member, Art of Classical Ballet Company

2016 – 2020

- Performed and practiced for ballet and contemporary performances around 30 hours per week
- Awarded in National Competitions such as the Youth American Grand Prix in Atlanta (1st Place Ensemble, 2016) and World Ballet Competition

Lead Organizer, A.R.T.S Camp

2018 – 2020

- Vice-President: Organized and planned yearly educational summer program for 150+ low-income students
- Counselor: Taught elementary school students skills in dance, theatre, and visual arts over the summer

Freelance Graphic Designer and Photographer

2016 – 2020

- Captured high-quality studio photographs for print and internet distribution
- Crafted original marketing programs (logos, posters, merchandising, social media, and brochures)
- Built authentic creative partnerships with companies such as Ballet East, the Alexander W. Dreyfoos Dance Department, Art of Classical Ballet, and Inhouse Expressions

HONORS

- YoungArts Finalist in Visual Art (2019): Highest US Honor for artists under 18 (Alumni Include Timothée Chalamet, Daniel Arsham, Viola Davis)
- YoungArts Winner in Photography (2018, 2019)
- Kovner Opportunity Scholar: Class of 2019
- Questbridge Prep-Scholar and Finalist (2019)
- Palm Beach Post Pathfinder Nominee in Science
- Published Snapchat Geofilter: Designed Logo for hometown city that received 5.4 Million Views, 110K Uses
- Lead in University of South Florida Short Film "American Boyfriend" (Premiered in Nashville film Festival)
- Full Scholarships to Pacific Northwest Ballet, Boston Ballet, San Francisco Ballet, and Ballet West Schools

SKILLS

Programming: Skilled in Python, Java, C, L^AT_EX, and Git

Applications: Adobe (Photoshop, Illustrator, InDesign, Premier), Solidworks, COMSOL Multiphysics, Overleaf