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Education

New York University Ph.D. in Computer Science, advised by Claudio T. Silva and Daniele Panozzo	June 2024 – present
Columbia University M.A. in Physics, advised by Abhay Pasupathy	Sept. 2022 – May 2024
Columbia University B.A. in Physics	Sept. 2017 – May 2021

Research Positions

Graduate Research Assistant New York University, New York, NY	Oct. 2023 – present
Graduate Research Assistant Columbia University, New York, NY	Jan. 2023 – April 2024
Volunteer Research Assistant Massachusetts Institute of Technology, Remote	May 2021 – April 2022
Undergraduate Research Assistant Barnard College, New York, NY	August 2020 – April 2021
Undergraduate Research Assistant Columbia University, New York, NY	March 2019 – April 2021

Publications

* Denotes equal contribution.

5. **[LookUp3D: Data-Driven 3D Scanning](#)** 2025
Giancarlo Pereira*, Yidan Gao*, Yurii Piadyk*, David Fouhey, Claudio T. Silva, Daniele Panozzo
ACM SIGGRAPH Asia 2025

4. **[Cavity-Altered Superconductivity](#)** 2025
Itai Keren, Tatiana A Webb, Shuai Zhang, Jikai Xu, Dihao Sun, Brian S. Y. Kim, Dongbin Shin, Song-tian S. Zhang, Junhe Zhang, Giancarlo Pereira, Juntao Yao, Takuya Okugawa, Marios H. Michael, Emil Viñas Boström, James H. Edgar, Stuart Wolf, Matthew Julian, Rohit P. Prasanjumar, Kazuya Miyagawa, Kazushi Kanoda, Genda Gu, Matthew Cothrine, David Mandrus, Michele Buzzi, Andrea

Cavalleri, Cory R. Dean, Dante M. Kennes, Andrew J. Millis, Qiang Li, Michael A. Sentef, Angel Rubio, Abhay N. Pasupathy, Dmitri N. Basov
Nature

3. Towards Data-Informed Interventions: Opportunities and Challenges of Street-level Multimodal Sensing 2024

João Rulff, **Giancarlo Pereira**, Marcos Lage, Maryam Hosseini, Claudio T. Silva
UrbanAccess 2024

2. Eliciting Learner Knowledge: Enabling Focused Practice through an Open-Source Online Tool 2022

Meredith Thompson, Griffin Leonard, Jamie N. Mikeska, Pamela S. Lottero-Perdue, Adam V. Maltese, **Giancarlo Pereira**, Garron Hillaire, Rick Waldron, Rachel Slama, Justin Reich
MDPI Behavioral Sciences

1. Quantum criticality in twisted transition metal dichalcogenides 2021

Augusto Ghitto, En-Min Shih, **Giancarlo Pereira**, Daniel A. Rhodes, Bumho Kim, Jiawei Zang, Andrew J. Millis, Kenji Watanabe, Takashi Taniguchi, James C. Hone, Lei Wang, Cory R. Dean, Abhay N. Pasupathy
Nature

Honors & Awards

Deborah Rosenthal, MD Award 2026
Awarded to a graduate student in Computer Science for outstanding performance on the PhD qualifying examination.

NYU School of Engineering Fellowship 2024 – 2025
One-year fellowship to support graduate student's salary and tuition.

Lead Teaching Fellow 2023 – 2024
Fellowship for graduate students committed to promoting discussions and new pedagogical practices within their respective departments at Columbia University and with the Center for Teaching and Learning

oSTEM: Queer in AI Grad Application Financial Aid 2021
Funding awarded to queer students in STEM applying to graduate programs.

Columbia University's Multicultural Affairs Graduation Cord 2021
Distinction awarded to graduates who demonstrated an outstanding commitment to diversity, social justice, and multiculturalism through Multicultural Affairs, campus leadership, community involvement, academic endeavors, and/or personal dedication.

William C. and Esther Hoffman Beller Scholarship Fund 2019 – 2021
Financial aid scholarship covering college tuition and all other expenses.

Columbia University's Science Research Fellowship 2017 – 2021
Merit-based scholarship awarded to 10 students of the Class of 2021 upon admission for scientific research funding.

Teaching

Graduate Teaching Fellow

Sept. 2022 - May 2024

Columbia University, Physics Department, New York, NY

Taught weekly Physics laboratory courses for pre-med and engineering students: PHYS1291 (Fall 2022), PHYS1292 (Spring 2023), PHYS1494 (Fall 2023, Spring 2024).

Science/STEM Full-Time Teacher

Sept. 2021 - June 2022

Xaverian High School, Brooklyn, NY

Taught Computer-Aided Design and Robotics to 93 sixth graders and Regents and Honors Physics to 67 high school students.

Undergraduate Teaching Assistant

Jan. 2019 - Apr. 2021

Columbia University, Mathematics Department, New York, NY

Taught weekly recitations for MATH3027 Ordinary Differential Equations (Spring 2021, Fall 2020, Summer 2020, Spring 2019) and MATH2010 Linear Algebra (Spring 2020, Fall 2019).

Literature Teaching Fellow

June 2019 - Aug. 2019

Breakthrough Collaborative New York, The Bronx, NY

Taught The House on Mango Street to seventh grade in the Bronx.

Organized an Open Mic event for student and staff performances (singing, dancing, etc).

Peer-to-Peer Physics Tutor

Feb. 2018 - Apr. 2018

Barnard College, New York, NY

Tutored 15 Barnard students in Electricity and Magnetism.