

# Carson Garland

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## EDUCATION

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### Columbia University – New York, NY

*Bachelor of Science: Electrical Engineering & Computer Science*

- Ruth Katzman Scholarship Recipient – 2020/2021/2022
- Dean's List: Two Terms

**Expected: May 2024**

*GPA: 3.84 / 4.0*

### Phillips Exeter Academy – Exeter, NH

*High School Diploma*

- Highest Honors: Two Terms
- High Honors: Four Terms

**08/2018 – 06/2020**

*GPA: 9.72 / 11.0*

### Dartmouth College – Hanover, NH

*Dual-Enrollment 2017 / 2018*

- Biomedical Engineering for Global Health and Intro to Statistics
- Dartmouth Book Award – 2017/2018

**12/2017 – 06/2018**

*GPA: 3.67 / 4.0*

## RELATED COURSE WORK

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- Computer Networks
- Advanced Programming in C
- Intro to Applied Mathematics
- Multivariable Calculus
- Fundamentals of Computer Systems
- Signals and Systems
- Data Structures and Algorithms in Java
- Discrete Mathematics
- Circuit Analysis

## TECHNICAL SKILLS

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- Java
- Python
- MATLAB
- SQL (MySQL)
- C
- ATOLL RF Network Software
- Microsoft Suite (PowerBI, Excel, PPT)
- Google Suite (Docs, Sheets, Slides)
- LTspice

## WORK EXPERIENCE

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### AT&T Inc.

**06/2022– 08/2022**

*TDP Data Analyst Intern*

- Produced a user-friendly, approachable python script (using openpyxl and win32com) in order to automate Fiber Metric Definitions for the Fiber Metrics team, saving developer time.
- Ingested siloed tables from local storage through Databricks and into Snowflake using SQL and python as part of the Chief Data Office's Rapid Insight Team.
- Generated multi-source PowerBI dashboards that aided in visualizing the value of the product to support an intern-led innovation team.

### WiMNet Lab - Columbia University

*Undergraduate Researcher*

**02/2022 – 05/2022**

- Using both Bell Labs and Meta receiver-transmitter pairs to study the path loss effects in Outdoor-to-Indoor as well as Outdoor-to-Outdoor measurements of 28 GHz and 60 GHz frequencies.
- Collected upwards of 15 million measurements to establish one of the most extensive databases of 28 GHz Outdoor-to-Indoor path loss data.
- Published author on "Outdoor-to-indoor 28 GHz Wireless Measurements in Manhattan: Path Loss, Environmental Effects, and 90% Coverage" [arXiv:2205.09463].

### Verizon Wireless

**06/2021 – 12/2021**

*RF Design Intern*

- Conducted ATOLL 5G RF propagations to both attain handoff between sites for testing purposes as well as investigate site power changes and suggest proactive responses to maintain coverage.
- Generated Multi-point analyses in ATOLL examining C-Band interference with existing Earth Stations alongside creating a python script to examine the data and produce coherent analysis that informed power increase proposals.
- Developed a python-based tool (using backend API requests, pandas, Matplotlib, and python-pptx) for the RF Engineering and System Performance teams in order to automate activation reports, saving developer time.