

# Carson Garland

(603) 306-5588 | 31 Seven Hearths Lane, Sunapee, NH 03782  
[carson.garland.t@gmail.com](mailto:carson.garland.t@gmail.com) | <https://www.linkedin.com/in/carson-garland/>

## EDUCATION

---

### Columbia University – New York, NY

*Bachelor of Science: Electrical Engineering & Computer Science*

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

**Expected: May 2024**

*GPA: 3.84 / 4.0*

### Phillips Exeter Academy – Exeter, NH

*High School Diploma*

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

**Aug 2018 – June 2020**

*GPA: 9.72 / 11.0*

### Dartmouth College – Hanover, NH

*Dual-Enrollment 2017 / 2018*

- Dartmouth Book Award – 2017/2018

**Dec 2017 – June 2018**

*GPA: 3.67 / 4.0*

## RELATED COURSEWORK

---

- |                       |                                  |                                |
|-----------------------|----------------------------------|--------------------------------|
| - Computer Networks   | - Data Structures and Algorithms | - Intro to Applied Mathematics |
| - Signals and Systems | - Advanced Programming in C      | - Multivariable Calculus       |
| - Computer Systems    | - Discrete Mathematics           | - Discrete Mathematics         |

## TECHNICAL SKILLS

---

- |                               |               |                             |
|-------------------------------|---------------|-----------------------------|
| - Java                        | - SQL (MySQL) | - ATOLL RF Network Software |
| - Python (pandas, matplotlib) | - MATLAB      | - MS Suite (PowerBI, Excel) |
| - C                           | - LTspice     | - Google Suite              |

## WORK EXPERIENCE

---

### AT&T Inc.

**June 2022 – Aug 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

**Feb 2022 – May 2022**

*Undergraduate Researcher*

- 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

**June 2021 – Dec 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 backed 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.