



# SONIC Data Science Internship Opportunities Summer 2022

**Course Credit:**

Research Practicum registration #: 389 (COMM\_ST) or  
Independent Study registration #: 399-0 (IEMS)

**Duration:**

Summer 2022 (with the possibility to continue)

**Location:**

In person or Remote

**Organization Overview:**

The Science of Networks in Communities (SONIC) research group advances social network theory and methodology through the development of cutting-edge techniques to understand and enable networks in diverse communities. For more information, please visit

<http://sonic.northwestern.edu/about>

**Internship Opportunities:**

SONIC is excited to offer 3 internship opportunities this quarter:

- Car project (details are below)
- My Dream Team
- SONIC INtranet

**Requirements:**

Data Science Internships are open to current undergraduates or graduate students enrolled in an accredited degree-seeking program at Northwestern. Candidates must be able to demonstrate attention to detail, proficient writing/communication skills, analytic thinking, and emphasis on deadlines. Many projects require candidates to have at least basic knowledge of programming or statistical software. For project specific requirements and preferences, see descriptions below.

**Application Instructions:**

For general questions about the internship and the SONIC research group, please contact Dorothea Boyle, at [dorothea.boyle@northwestern.edu](mailto:dorothea.boyle@northwestern.edu). To apply for MyDreamTeam or SONIC INtranet, please contact Victoria Kam, [victoria.kam@northwestern.edu](mailto:victoria.kam@northwestern.edu).

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**Description:**

This project aims to understand how consumers' preferences and social networks can be used to predict their car consideration and purchase decisions, and how these decisions can help car manufacturers make better car design decisions. Intern responsibilities include:

1. data cleaning
2. statistical analysis (e.g., ERGMs, ALAAMs)
3. reviewing existing papers to uncover how communication patterns among consumers can predict consumer-product and product-product relationships

**Required Qualifications:**

This position is open to current undergraduates or graduate students enrolled in an accredited degree-seeking program at Northwestern. Candidates should also have knowledge of R, ERGMs, and an interest in social network analysis.

Departments: IEMS, CS, MMSS, Comm or other departments

Education level: Undergraduates or Graduates

**Preferred Qualifications:**

Interest in or prior experience in social network analysis (e.g. ERGMs ALAAM) is strongly preferred

**Application Instructions:**

Please send a resume and brief cover letter describing your interest in the position to Neelam Modi (neelammodi@u.northwestern.edu).