

# Christopher Laan Gsell

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<http://christopherlaangsell.github.io>

## EDUCATION

### University of North Carolina at Chapel Hill

M.S., Computer Science – Software Engineering  
B.A., Physics – Quantitative Finance. GPA: 3.48

August 2020 - May 2022

August 2015 - May 2019

## WORK EXPERIENCE

### Collaborative Studies Coordinating Center – Chapel Hill, NC

May 2020 - Present

Graduate Research Assistant – (Offsets tuition ~ \$40,000/yr)

- Front-end developer (ClojureScript) for the manuscript-tracking component of a \$3 million, NHLBI-funded severe asthma study
- Built a full suite of editing and management tools for researchers to share and store their work remotely
- Refactored source code away from use of Reagent atoms to Re-frame functionality
- Incorporated Firebase's product suite: Authentication, Realtime Database, Cloud Firestore, Storage

### Graham Capital Management – Rowayton, CT

June - August 2018

Quantitative Research Analyst

- Converted SEC filings of a competing fund into dataset that allowed fund management to compare sector exposures and track relative changes over 16 quarters. Final results were directed to firm president
- Using numerical optimization techniques, created 30-year benchmark indices in all four market sectors

## PROJECT AND LEADERSHIP EXPERIENCE

### Department of Computer Science – Chapel Hill, NC

January 2020 - Present

Volunteer Researcher

- Developing an asynchronous camera sensor with dynamic range superior to traditional CMOS sensors
- Focusing on applications in astronomy and reducing pixel noise

### Carolina Squash – Chapel Hill, NC

August 2015 - May 2019

President

- Raised \$717,000 in one month to build 8 new courts and to create an endowment. Additionally, raised \$20,000 for club operational expenses my senior year: 3x more than any previous year and 5x more than my freshman year
- Oversaw the promotion of the squash organization to University Club status and both the men's and women's teams to 501c3 organizations – the first time a UNC club has sought this classification
- Negotiated a budget granted by UNC Student Government of \$18,000, up from \$0 four years before
- Developed a women's squash interest organization and a women's team (the southernmost in the country)
- Recruited players and increased club membership 3x in 2 years
- Hosted and organized the first two collegiate hardball squash tournaments since 1991
- Guided the women's team to its first Nationals berth and the men's team to its fourth consecutive
- Worked with architecture firm and school leadership to design upcoming and long-term squash facilities

### National Outdoor Leadership School (NOLS) – Yukon, Canada

July 2017

Designated Leader

- Achieved an A rating from all six instructors and voted 'Designated Leader' by NOLS peers
- Hiked and camped in Canadian backcountry for one month, further developing leadership and survival skills
- Leveraged teamwork skills and environmental knowledge to navigate difficult terrain with 14 other students

**Community:** Taught English to Spanish elementary students; volunteered at the local Catholic church; organized and promoted service activities within squash club such as food and blood drives, free clinics & community tournaments

**Technical Skills:** Clojure(Script), JavaScript, Java, C, Python, Verilog, LaTeX, Bash, Microsoft Office

**Personal:** Enjoys golf, tennis, running, reading the news, spending time with family; a proponent of cold brew coffee