

# Christopher Laan Gsell

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## 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

### UNC Department of Biostatistics – Chapel Hill, NC

May 2020 - Present

Graduate Research Assistant

- Designed and implemented the Single Sign-On functionality of the \$150 million, NIH-funded BACPAC program
  - Worked closely with the Auth0 and Firebase product suites
  - Assisted with developing a demo app that was published on Auth0 website
- Built the manuscript-tracking system for an NHLBI-funded study that will be used by 10 clinical centers
  - Designed intuitive editing and management tools for researchers to store and share their work remotely
  - Worked with libraries in **JS** and **ClojureScript+Reagent** stack and ensured interoperability
  - Identified and inspired fix of design flaw in ClojureScript's most popular build library, **Shadow-CLJS**

### US Integrity – Las Vegas, NV

May - June 2021

Software Engineer

- Built robust sports betting dashboard that allows users to better identify gambling irregularities
- Used **R(Shiny)** for frontend and **PostgreSQL** for backend
- Worked one-on-one with the CEO and COO to plan and build product to their needs

### 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
- Used numerical optimization techniques to create 30-year benchmark indices in all four market sectors

## PROJECT AND LEADERSHIP EXPERIENCE

### 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 elected 'Designated Leader' by NOLS peers
- Trekking in Canadian backcountry for one month, further developing leadership, teamwork, and survival skills

**Technical Skills:** Clojure(Script), JavaScript, 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