

# HUGO MORVAN

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## EDUCATION

LINKÖPING UNIVERSITY, Sweden | GRADUATE STUDENT | AUGUST 2023 - Anticipated graduation: MAY 2025  
Master in **Statistics & Machine Learning**.

- Courses taken: Deep Learning, Machine Learning, Bayesian Learning, Neural Networks and Learning System, Big Data Analytics, Advanced Data Mining, Computational Statistics, Statistical Methods, Advanced Programming in R, Introduction to Python.
- Ongoing courses: Advanced Machine Learning, Time Series and Sequence Learning, Text Mining, Bioinformatics, Independent Research Project (*Empirical Bayes estimation of set-piece conversion rates in football*).

UNIVERSITY OF SOUTH DAKOTA, USA | UNDERGRADUATE STUDENT | AUGUST 2019 – MAY 2023

Bachelor of Science in **Computer Science**, minoring in **Mathematics** and **Physics**; **Artificial Intelligence** certification.

- Summa Cum Laude, University Scholar Graduate, 3.903 GPA
  - National Collegiate Athletic Association (NCAA) Division I Track & Field Student Athlete
    - NCAA West Preliminary qualifier (2021, 2023), French Olympic trials qualifier (2021)
  - Honors Core Curriculum Student
    - Research Thesis on the topic of 3D Deep Features for Covid-19 Screening in CT-Scans.
    - Undergraduate Research Excellence Award recipient
  - U-Discover Summer Research Scholar
  - Dean's List and Athletic Academic Honor Roll recipient for Fall 2019 through Spring 2023.
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## EXPERIENCE

**MATHEMATICS TUTOR** | USD ACADEMIC & CAREER PLANNING CENTER | JANUARY 2022 – MAY 2023

- Courses tutored range from Math 095 (Basic Algebra) to Math 321 (Differential Equation)

**STUDENT AMBASSADOR** | USD COMPUTER SCIENCE DEPARTMENT | AUGUST 2020 – MAY 2023

**CODE CLUB VICE-PRESIDENT** | USD CODE CLUB | AUGUST 2020 – MAY 2023

- Competitive programming club whose goal is to prepare for the annual multi-tiered International Collegiate Programming Contest (ICPC).
- Weekly contest, followed by meeting of the club to discuss solutions for the problems

**STUDENT RESEARCHER** | U-DISCOVER SUMMER RESEARCH PROGRAM | MAY 2022 – AUGUST 2022

- Research topic: 3D Deep Features for Covid-19 Screening in CT-Scans
  - 10 weeks summer research program funded by a \$5000 grant, mentored by **Dr. KC Santosh**
  - Presentation of research results to various events: Ideafest 2023 (USD, Vermillion SD), South Dakota Honors Showcase (SDSU, Brookings SD), 2023 South Dakota Student Poster Session (South Dakota Capitol, Pierre SD)
  - Undergraduate Research Excellence Award recipient: award includes a grant of \$500 and a featured month in the Office of Research and Sponsored Programs 2023 calendar.
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## SKILLS

- **Languages**: French / English – Bilingual | Spanish – Intermediate proficiency | Swedish – Beginner
- **Programming languages**: Python (ML/DL, computer vision, data analysis & visualization), R (statistics, machine learning, data analysis & visualization), Java, SQL, Git
- **Competitive Programming**: Developed strong problem-solving and analytical thinking skills through competitive programming, applying efficient algorithms and data structures to tackle complex challenges.
- **Track & Field**: Competed in 110m hurdles at the international level (2023 European Athletics U23 Championships qualifier) alongside my studies, strengthening my skills in stress management, motivation, and performance under pressure.
- **Soft skills**: Good communication, punctuality, work ethic, teamwork, adaptability, “easy to work with”.