Oscar Depp

odepp@u.northwestern.edu | (267)-902-7782 | linkedin.com/oscardepp

EDUCATION

Northwestern University Evanston, IL

Bachelor of Science in Applied Mathematics

Expected June 2025 Expected June 2025

Master of Science in Computer Science

- GPA: 3.97/4.00; Dean's List All Quarters
- Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Space Technology, Club Tennis (A Team), Japan Club VP

 Northwestern Capital Management, AeroNU, Experimental Management, AeroNU, Aero
- Relevant Coursework: Numerical Modeling & Computation, Partial Differential Equations, Microeconomics, Complex Analysis, Probability, Linear Algebra, Data Structures & Algorithms, Thermodynamics, Machine Dynamics

Deerfield Academy Deerfield, MA

High School

2017-2021

• Investment & Security Analysis Club President, Varsity Tennis, International Student Alliance Chair, Peer Tutor Group Head, Political Magazine Editor-in-Chief

King's Academy Madaba, Jordan

• Initiated and self-organized a study abroad program for cultural awareness and language fluency; 4.0 GPA

EXPERIENCE

Northwestern Capital Management

Evanston, IL

Quantitative Strategy Analyst

March 2023-

• Developed paper trading algorithms using ML packages and statistics to maximize portfolio return; cleaned datasets, tested for mean reversion, and performed data scraping and sentiment analysis

Buffett Institute of Global Affairs

Evanston, IL

Undergraduate Researcher

September 2022-January 2023

- Analyzed gender patterns in Arabic textbooks and graphics using Mathematica ML tools to improve DEI in classrooms
- Studied global gender inequality trends in STEM through qualitative datasets in the Middle East

Y-SAPIX Global Campus and Triple Alpha

Tokyo, Japan

Summer Intern

June-August 2021

• Created a promotional video using with Adobe Premiere Pro and machine translation tools to translate videos and interviews of global leaders in Japan to market a Boarding School Fair website column

Yokohama Athletic & Country Club

Yokohama, Japan

Tennis Coach

June-August 2021

Organized personalized coaching sessions for junior professionals, improving client base fivefold in ten weeks

PROJECTS

Funded Undergraduate Research

May-August 2023

 Awarded a \$4500 grant for a self-directed proposal modeling and simulating coupled stochastic differential equations computationally, contributing to understanding of bio-membrane dynamics and the evolution of interest rates

Autonomous Drone Project | *Robotics Club*

November 2022-

• Trained a computer vision machine learning model to identify boxes, wrote a program to adjust positions autonomously using PID loops in Python, and designed and 3-D printed drone's electronics frame

Helix Slap-Down Container Opener | DTC I

September-December 2021

• Designed a human-centric, intuitive product in collaboration with the Shirley Ryan Ability Lab to enhance the day-to-day independence of a client with mobility disabilities through user testing, computer aided design, and prototyping

CubeSat Design | Experimental Space Technology

March-September 2022

- Developed a novel Additive-Manufactured satellite design to minimize part count and force impact in atmosphere
- Researched 3D-cellular structures, selected materials computationally, & optimized topology through Python simulation

SKILLS & INTERESTS

Awards: J.S. & Helen James Scholar, McCormick Summer Research Award 2023, Segal Institute Design Award 2021, Advanced Arabic Excellency Award 2022, Speech (Poetry Declamation) Award 2021

Programming: Numerical Modeling, PyTorch, TensorFlow, C++/C, Python, SQL, Git, MATLAB, Java, CAD, Mathematica **Languages**: Fluent in English, Japanese, Chinese, Arabic

Interests: Tournament Tennis, Concert Piano, Languages, Running, Travel, Writing Poetry & Film, Sauna, Beekeeping