

# Lodewyk Jansen van Rensburg



541-286-0239



jansenvl@oregonstate.edu



Corvallis, Oregon



lodewyk6



wikusjvr46



<http://morningperson-com.stackstaging.com/>

## A B O U T M E

*Lodewyk grew up in Pretoria, South Africa and came to the United States in 2020 with the purpose of discovering and teaching Mathematics.*

Ut fermentum a magna ut eleifend. Integer convallis suscipit ante eu varius. Morbi a purus dolor. Suspendisse sit amet ipsum finibus justo viverra blandit. Ut congue quis tortor eget sodales. Nulla a erat eget nunc hendrerit ultrices eu nec nulla.

## COURSEWORK

- MTH 511: Graduate Real Analysis (*current*)
- MTH 512: Graduate Real Analysis (*senior year*)
- MTH 542: Dynamical Systems (*current*)
- MTH 311, 312: Advanced Calculus (A)
- MTH 343, 499: Abstract Algebra (A)
- MTH 333: Fundamental Concepts in Topology (A)
- MTH 341, 342: Linear Algebra (A)
- MTH 256: Ordinary Differential Equations (A)
- MTH 451: Numerical Linear Algebra (A)
- MTH 355: Discrete Mathematics (A)
- MTH 211, 212: General Physics with Calculus (A)
- CS 161, 162: Introduction to Computer Science (A)
- CS 271: Computer Architecture and Assembly language (A)

## EDUCATION

### B.S in Mathematics

*Oregon State University*  
2020-2023

Overall G.P.A. (3.67)

Mathematics G.P.A (4.00)

### First Year Completed

*University of Pretoria*  
2019-2020

### Highschool

*Die Hoerskool Menlopark (South Africa)*  
2014-2018

## HONORS

## EXPERIENCE

### Mathematics Grader

*Oregon State University / Corvallis, Oregon / January 2022-present*

MTH 342 is the second course in Linear Algebra focused on proof writing with topics including Abstract (real or complex) vector spaces, linear transformations, inner product spaces, orthogonality, eigenspaces and diagonalization, spectral theorems, singular value decomposition. The grading duties were split between me and the GTA.

- Evaluated student learning by grading homework assignments, the midterm, and the final exam.
- Oversaw evaluation integrity by proctoring midterm exams.

### Software Engineer Intern

*Epi Use / Atlanta, Georgia / June 2021-July 2021*

Worked alongside three full-time software engineers for a client. We wanted to discover where personally identifiable information was being shared by micro-services and how micro-services interacted with each other.

- Built an application to import and analyze data in a graph-database.
- Learned and applied technical concepts to create innovative software solutions for business problems.
- Designed and presented weekly progress reports to a committee of five software engineers.

### Mathematics Learning Assistant

*Oregon State University / Corvallis, Oregon / September 2021-December 2021*

- A learning assistant at Oregon State University assist instruction in lower-level Math courses by attending lectures and helping students with group activities in the classroom.
- Assisted instruction and lesson plans within an active learning environment.
- Elaborated and explained concepts in Trigonometry such as trigonometric functions, inverse trigonometric functions, and polar co-ordinates.
- Received training and practice in learning theory, teaching strategies, metacognition, and students' conception within the context of a Trigonometry course.

### Computer Science Teaching Assistant

*Oregon State University / Corvallis, Oregon / March 2021-June 2021*

Enhanced and evaluated student learning in the School of Electrical Engineering and Computer Science.

- Coordinated and instructed weekly lab sessions along with two other teaching assistants.
- Explained and educated students on the basics of computer programming during weekly office hours.
- Evaluated student learning by grading CS161's final projects.

### UHDS Student Painter

*Oregon State University / Corvallis, Oregon / June 2022-September 2022*

## Botond Gabor Eross Math Memorial Scholarship for outstanding work in mathematics

*Oregon State University 2022*

## International Continuation Scholarship

*Oregon State University 2021-2022*

## Noord-Vaal Rugby Sevens Team in Dubai

*South Africa 2017*

## PROGRAMMING LANGUAGES

- C++
- Python
- Matlab
- JavaScript
- HTML
- PHP
- Cypher Query Language

UHDS employs twenty students to aid their painting crew in repainting every room in the residence halls on campus.

- Accepted responsibility for ensuring rooms adhered to the UHDS' high standards.
- Assisted the team supervisor in quality control after painting was completed.
- Successfully collaborated with a diverse team of students and full-time staff.

## UHDS Food Service Worker

*Oregon State University / Corvallis, Oregon / September 2020 – March 2021*

My role in the company was working the breakfast at one of the dining centers on campus where we prepared, cooked, and served hot meals.

- Developed communication skills while aiding customers and answering questions about menu items, ingredients, allergens, the location of retail items, and current prices.
- Prioritized attention to detail while cooking and preparing menu items using raw products and meats to ensure customer safety.
- Organized and restocked food supplies to ensure minimal waste and efficient retrieval.