Noah King

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Portfolio

Education

Simpson College, Indianola, Iowa Jan 2023 – May 2026 (expected)
Bachelor of Arts, **Double Major: Chemistry & Physics**
GPA: 3.93 / 4.00
Honors: Dean's List (2 semesters), President's list (3 semesters)

Research Experience

Research Experience for Undergraduates (REU) Fellow Summer 2025
Department of Chemistry, University of Nebraska
- Selected for a competitive NSF-funded 10-week research program in the Morin research group
- Investigated hydrogel transfer printing for surface-molded systems, focusing on techniques for patterning interdigitated arrays
- Applied surface patterning and integration techniques to prototype hydrogel systems
- Immersed in a full research environment, developing skills in formulating and refining experimental questions on a daily basis
- Presented findings in a Poster at the University of Nebraska Summer Research Symposium

Undergraduate Researcher Spring 2025
Simpson College – Ag Leader Technology Collaboration
- Developed an algorithm for determining vehicle steering angle from plant location data using computational methods in mathematics and computer science
- Produced both a Paper and a Presentation, presented at the Simpson College Research Symposium
- Utilized Excel and Python to analyze and process large datasets, performing calculations that produced results aligned with project goals

Capstone Research Project (in progress) Fall 2025–Spring 2026
Department of Chemistry and Physics, Simpson College
- Combining Chemistry and Physics to synthesisize CdSe based Quantum Dots and integrate into an optically pumped dye laser setup. - Controlled reaction attempting a flat bandwidth. - Capstone Paper to be completed in Spring 2026

Selected Works

Poster: Hydrogel Transfer Printing for Surface-Molded Systems Summer 2025
University of Nebraska – NSF REU Program, Morin Research Group
Presented at the University of Nebraska Summer Research Symposium

Project: Algorithmic Determination of Vehicle Steering Angle from Plant Location Data Spring 2025

Simpson College — Ag Leader Technology Collaboration

- Presentation, presented at the Simpson College Research Symposium
- Paper, extended technical report

Paper: Characterizing the Role of APE1 Inhibitor by Mutation of its Covalent Warhead Binding Site
Spring 2025
Simpson College – Biochemistry Laboratory Project
10-page research-style paper produced as part of lab-only biochemistry coursework

Paper: Modeling the Depressurization Rate of a Space Station Fall 2024
Simpson College – University Physics Competition
Produced as part of a team-based applied physics challenge

Relevant Coursework

Laser Physics	Vibrations & Waves
Modern Physics	Thermodynamics
Experimental Physics	Quantum Mechanics
Biochemistry	Differential Equations

**Vibrations & Waves and Thermodynamics in progress; Quantum Mechanics and Differential Equations planned prior to matriculation.*

References

David Olsgaard	Professor Emeritus of Physics	Simpson College david.olsgaard@simpson.edu
Lindsay Ditzler	Associate Professor of Chemistry/Physics	Simpson College lindsay.ditzler@simpson.edu
Stephen Morin	Associate Professor of Chemistry	University of Nebraska–Lincoln smorin2@unl.edu