

# Sam Avery Norrell

[snorrell@wisc.edu](mailto:snorrell@wisc.edu) | 1150 University Ave #5304, Madison, WI 53706

## EDUCATION

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University of Wisconsin–Madison  
**PhD Student** in Physics  
Atomic, Molecular, and Optical Physics

Madison, WI  
*Expected Completion 2027*

Indiana University  
**Bachelor of Science** in Biology  
Concentration in Cell Biology and Molecular Genetics  
*Highest Distinction*

Bloomington, IN  
*May 2021*

**Bachelor of Arts** in Chemistry  
*Highest Distinction*

*May 2021*

**Bachelor of Arts** in Mathematics  
*Highest Distinction*

*May 2021*

## POSITIONS AND APPOINTMENTS

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**Graduate Research Assistant**  
*University of Wisconsin–Madison Department of Physics*  
– Experimental Quantum Computing  
– Advisor: Mark Saffman

2021 – present  
*Madison, WI*

**Undergraduate Research Assistant**  
*Indiana University Department of Physics*  
– Experimental Quantum Computing  
– Advisor: Philip Richerme

2020 – 2021  
*Bloomington, IN*

**Undergraduate Research Assistant**  
*Indiana University Department of Biology*  
– Molecular Genetics  
– Advisor: Nicholas Sokol

2016 – 2020  
*Bloomington, IN*

## PUBLICATIONS

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1. **Coordinated repression of pro-differentiation genes via P-bodies and transcription maintains *Drosophila* intestinal stem cell identity**  
Buddika K, Huang Y, Buttrum-Griffith A, Norrell SA, O’Conner AM, Patel VK, Rector SA, Slovan M, Sokolowski M, Kato Y, Nakamura A, Sokol NS  
[Current Biology, 32\(2\), 386 \(2022\).](#)

## INVITED TALKS AND PRESENTATIONS

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5. **Programming Trapped-Ion Quantum Computers**  
Society of Physics Students, IU Chapter  
Indiana University, Bloomington, IN  
September 2020
4. **P-Body Alteration and Genetic Screening in *Drosophila* Intestinal Cells**  
Fall 2019 Science, Technology and Research Scholars Research Symposium  
Indiana University, Bloomington, IN  
September 2019
3. **A Genome-Wide Screen for Necessary Stress Granule Protein Components in *Drosophila* Intestinal Cells**  
Fall 2018 Science, Technology and Research Scholars Research Symposium  
Indiana University, Bloomington, IN  
September 2018
2. **Regulatory RNA Pathways in Stem Cells and Differentiation**  
2018 Summer Science Institute Poster Session  
Indiana University, Bloomington, IN  
June 2018
1. **Purification of Trailer Hitch (TRAL) Antigen for Antibody Production**  
2017 Integrated Freshman Learning Experience Research Symposium  
Indiana University, Bloomington, IN  
July 2017

## RESEARCH GRANTS

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3. **Programming a quantum computer to solve problems in quantum chemistry**  
Award Total: \$1,500; 2021.05.11 to 2021.07.30  
Indiana University Hutton Honors College
2. **Characterizing messenger ribonucleoprotein (mRNP) complexes in *Drosophila* intestinal stem cells**  
Award Total: \$3,000; 2019.05.07 to 2019.07.26  
Indiana University Science, Technology, and Research Scholars Program
1. **Genetic screening for P-bodies in *Drosophila* intestinal stem cells**  
Award Total: \$2,288.45; 2018.05.08 to 2018.07.27  
Indiana University Hutton Honors College

## HONORS AND AWARDS

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**Victor E. Viola, Jr. Award in Nuclear and Physical Chemistry**, Indiana University Department of Chemistry. 2021.  
**Founders Scholar**, Indiana University. 2018, 2019, 2020, 2021.  
**Executive Dean's List**, Indiana University. Fall 2017-Spring 2021, each semester.

## SCHOLARSHIPS

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**Doctoral Scholarship**, University of Wisconsin Department of Physics. 2021-2022.

**Sid Robinson Scholarship**, Indiana University Department of Biology. 2019-2021.

**Verne O. Kling & Dorothy M. Kling Scholarship**, Indiana University College of Arts & Sciences. 2019-2020.

**Hutton Honors Scholarship**, Indiana University Hutton Honors College. 2017-2021.

**Hoosier Scholar**, Indiana University. 2017-2021.

**Provost Scholarship**, Indiana University. 2017-2021.