HARPER OKLAHOMA WEEKS WALLACE

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EDUCATION

École Normale Supérieure, PSL Research University, Paris, France Sep 2020–Present M.Sc., Cognitive Science (Computational Cognitive Neuroscience)

Anticipated: Jun 2022 **Denison University**, Granville, OH

Aug 2017–May 2020

B.S., Biochemistry, Summa Cum Laude, ΦBK, Recogn. of Thesis Rank: 1/569; GPA: 4.00/4

RESEARCH EXPERIENCE

da Silveira Laboratory, École Normale Supérieure

Aug 2020-Present

Graduate Research Assistant; Fulbright Scholar, France

Advisor: Rava A. da Silveira, Ph.D., Directeur de Recherche, Département de Physique

Sujet de stage: Efficient coding models for 'irrational' choice behavior: Accounting for preference intransitivity and context/decoy effects

Reczek Laboratory, Denison University

Jan 2018–May 2020

Undergraduate Research Assistant

Advisor: Joseph J. Reczek, Ph.D., Professor, Department of Chemistry & Biochemistry

Thesis: Controlled alignment of donor-acceptor columnar liquid crystals and interrogation of optical properties for applications in data storage and encryption

PUBLICATIONS

- Wallace HOW, Fikri K, Weinstein JN, Weeks WB. Improving economic conditions associated with declining ACSCs, elective surgeries, and care quality but increasing costs. (In preparation)
- Laskowski LF, Coble C, Leissa G, Wallace HOW, Bose I, Thompson JS, Rele CP. *Drosophilia biarmipes cnk. microPublication Biology.* (In press)
- Laskowski LF, Coble C, Leissa G, **Wallace HOW**, Bose I, Thompson JS, Rele CP. *Drosophilia* pseudoobscura cnk. microPublication Biology. (In press)
- Laskowski LF, Cowan B, Leissa G, **Wallace HOW**, Bose I, Thompson JS, Rele CP. *Drosophilia* erecta cnk. microPublication Biology. (In press)
- Cruzado JCM, Morales D, Leissa G, **Wallace HOW**, Bose I, Thompson JS, Rele CP. *Drosophilia mojavensis cnk. microPublication Biology.* (In press)
- Wallace HOW, Fikri K, Weinstein JN, Weeks WB. Improving economic conditions matter for mortality: Changes in local economic distress associated with mortality among Medicare fee-for-service beneficiaries between 2003 and 2015. J Gen Intern Med, 2021. https://doi. org/10.1007/s11606-020-06410-z.
- Van Winkle M, Wallace HOW, Smith N, Pomerene AT, Wood, MG, Kaehr B, Reczek JJ. Direct-write orientation of charge-transfer liquid crystals enables polarization-based coding and encryption. Sci Rep-UK, 10, 15352, 2020. https://doi.org/10.1038/s41598-020-72037-z.

PATENT APPLICATION

U.S. Patent Application 17/154,220. Polarization-based coding/encryption using organic chargetransfer materials. 2021 Jan 21. Inventors: Kaehr BJ (Albuquerque NM), Reczek JJ (New Albany OH), Van Winkle M (Berkeley CA), Wallace HOW (Dallas TX).

PRESENTATIONS

- Wallace HOW, Fikri K, Weinstein JN, Weeks WB. Improving economic conditions matter for mortality among Medicare fee-for-service beneficiaries in the U.S.. (Virtual) Oral presentation at the iHEA World Congress on Health Economics; 2021 Jul 12–15.
- Wallace HOW, Reczek JJ. Higher-order molecular control of self-assembling DACLCs. (Virtual) Poster session presented at Fundamental Research in Colloids, Surfaces & Nanomaterials Session; Division of Colloid and Surface Chemistry; American Chemical Society National Meeting; **2020** Mar 22–26.
- Wallace HOW, Reczek JJ. Technology applications of self-assembling DACLCs: Information storage and encryption techniques. Poster session presented at:
 - (a) 23rd Annual Posters on the Hill (CUR); **2019** Apr 30; Washington, DC.
 - (b) Undergraduate Research Session; American Chemical Society National Meeting; 2019 Mar 31–Apr 4; Orlando, FL.

AWARDS & HONORS

Rosalind Swenson Fulbright Enrichment Award, U.SFrance Fulbright Commission	2021
Fulbright Research/Study Grant, France, Fulbright U.S. Student Program	2020
Valedictorian, Class of 2020, Denison University	
Provost's Academic Excellence Award, Denison University	
Phi Beta Kappa (Academic Honor Society), Denison University	
Sigma Xi (Scientific Research Honor Society), Denison University	
William C. Ebaugh Award in Chemistry & Biochemistry, Denison University	
Columbus Chapter ACS Award for Outstanding Senior, American Chemical Society	
Barry Goldwater Scholarship, Barry Goldwater Scholarship Foundation	2019
J. Reid & Polly Anderson Scholarship for Excellence in Science, Denison University	
Department Fellow, Chemistry & Biochemistry, Denison University	
Thomas A. Evans Award in Organic Chemistry, Denison University	
Alpha Epsilon Delta (Pre-Health Honor Society), Denison University	
23 rd Annual Posters on the Hill, Council on Undergraduate Research	

EMPLOYMENT & EXTRACURRICULAR

Kaplan K-12 Learning Services, Live-Online Team	Jan 2018–Present
SHSAT and SAT Prep. Instructor	
Department of Chemistry & Biochemistry, Denison University	Jan~2018May~2020
Teaching Assistant, Tutor; Department Fellow (2019–2020)	
Jazz Combo, Denison University	Jan~2018May~2020
Alto Saxophone I	
Residential Communities, Denison University	Jan 2019–Dec 2019
Community Advisor (formerly "Resident Advisor")	

SERVICE

Nightline Paris, Paris, France

Volunteer Responder & Training Screener, English Line

FabLab, Collège-Lycée Paul Valery, Paris, France

Oct 2020–Present

Oct 2020-Present

Robotics and Programming Mentor

Pathways of Central Ohio, Newark, OH

Jun 2018–Mar 2020

Crisis Response Specialist, 2-1-1 Crisis Hotline & National Suicide Prevention Lifeline

FIRST Robotics, Granville, OH Middle and High Schools

Jan 2018–Mar 2020

Programming Mentor

TECHNICAL PROFICIENCIES

Programming
Python, Java, C#, C++, Obj-C, Swift

Data Analysis & DBMS

Markup

ETEX

French

MATLAB, R, Python, Excel, SQL Advanced reading, writing, and speaking

PERSONAL ACHIEVEMENTS

The Prouty 2018–2019

Cycled two century rides along the Connecticut River in Vermont and New Hampshire

Camino Portugues 2016

Cycled the historic 633-km pilgrimage from Lisbon, Portugal to Santiago de Compostela, Spain