HARPER OKLAHOMA WEEKS WALLACE

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EDUCATION

École Normale Supérieure, PSL Research University, Paris, France
M.Sc., Cognitive Science (Computational Cognitive Neuroscience)
Denison University, Granville, OH
B.S., Biochemistry, Summa Cum Laude, ΦBK, with Distinction
Aug 2017–May 2020
Rank: 1/569; GPA: 4.00/4

RESEARCH EXPERIENCE

Équipe biophysique et neurosciences théoriques, École Normale Supérieure Aug 2020– Ingénieur d'études (2021–); Stagiaire (2020–21); Fulbright Scholar, France

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

Sujet: An efficient-coding model of choice-behavioral context effects and preference intransitivity

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. Local economic distress, unhealthy behaviors, use of preventive services, and health outcomes: An observational study. *Am J Prev Med.* (In press)
- Dasgupta J, Moura E, **Wallace HOW**, Stamm J, Thompson JS, Rele CP. *Drosophilia pseudoobscura Thor. MicroPubl Biol.* (In press)
- Dasgupta J, Moura E, Leissa G, **Wallace HOW**, Stamm J, Thompson JS, Rele CP. *Drosophilia eugracilis Thor. MicroPubl Biol.* (In press)
- Laskowski LF, Coble C, Leissa G, **Wallace HOW**, Bose I, Thompson JS, Rele CP. *Drosophilia biarmipes cnk. MicroPubl Biol.* (In press)
- Laskowski LF, Coble C, Leissa G, **Wallace HOW**, Bose I, Thompson JS, Rele CP. *Drosophilia pseudoobscura cnk. MicroPubl Biol.* (In press)
- Laskowski LF, Cowan B, Leissa G, **Wallace HOW**, Bose I, Thompson JS, Rele CP. *Drosophilia erecta cnk. MicroPubl Biol.* (In press)
- Cruzado JCM, Morales D, Leissa G, **Wallace HOW**, Bose I, Thompson JS, Rele CP. *Drosophilia mojavensis cnk. MicroPubl Biol.* (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 en-

PATENT APPLICATION

U.S. Patent Application 17/154,220 (Publication No. 2021/0165984). Polarization-based coding/encryption using organic charge-transfer materials. 2021 Jun 3. Inventors: Kaehr BJ, Reczek JJ, Van Winkle M, Wallace HOW. https://patents.google.com/patent/US20210165984A1.

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, da Silveira RA. An efficient-coding model of choice-behavioral context effects. (Virtual) Poster session presented at the Institute of Molecular and Clinical Ophthalmology Basel; 2021 May 27.
- 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.S.-France 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 ΦBK Academic Honor Society, Denison University $\Sigma\Xi$ Scientific Research Honor Society, Denison University William C. Ebaugh Award in Chemistry & Biochemistry, Denison University Columbus Chapter 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 $AE\Delta$ Pre-Health Honor Society, Denison University 23rd Annual Posters on the Hill, Council on Undergraduate Research

EMPLOYMENT & EXTRACURRICULAR

Kaplan K-12 Learning Services, Live-Online Team

Jan 2018–

SHSAT and SAT Prep. Instructor

Department of Chemistry & Biochemistry, Denison University

Jan 2018-May 2020

Teaching Assistant, Tutor (2018–20); Department Fellow (2019–20)

Jazz Combo, Denison University

Jan 2018–May 2020

Alto Saxophone I

 $\Phi\Gamma\Delta$ Fraternity, Denison University

Jan 2018-May 2020

Treasurer, Social Chair (2019–20)

Residential Communities, Denison University

Jan 2019–Dec 2019

Community Advisor (formerly "Resident Advisor")

SERVICE

Nightline Paris, Paris, France

Oct 2020-

Volunteer Responder, Referee, & Training Screener, English Line

FabLab, Collège-Lycée Paul Valery, Paris, France

Oct 2020-

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

Markup

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

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Data Analysis & DBMS

Languages

MATLAB, R, Python, Excel, SQL

English (native), French (advanced)

PERSONAL ACHIEVEMENTS

The Prouty

Jul 2018, 2019

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

Camino Portugues

Jun 2016

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