# Dr. Shaun Wallace

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## Academic Positions

#### **Assistant Professor**

University of Rhode Island, Dept. of Computer Science and Statistics

- Director: Human-Centered Experiential Technologies (HAX) Lab
- Co-Director: Virtual Readability Lab
- Faculty Senator (starting 2024)

### Education\_\_\_\_\_

Web Developer

Brown University, Dept. of Computer Science РнD Сомритек Science • Advisor: Jeff Huang • Thesis: Public Data Systems for Evolving Information	Providence, RI 2023
Brown University, Dept. of Computer Science MSc Computer Science	Providence, RI 2017
University of Limerick, Dept. of Computer Science and Information Systems MSc Music Тесниоцоду, 1ST CLASS HONOURS • Advisor: Kerry Hagan • Thesis: Real-time Audio Spectra Manipulation with Adaptive FM Synthesis	Limerick, IE 2009
University of Rhode Island, College of Business BSc Management Science & Information Systems, Summa Cum Laude	Kingston, RI 2008

## Previous Industry Experience

Lead Systems Programmer Brown University, Dept. of Computer Science	Providence, RI Jan 2018 - Jul 2023
DROWN UNIVERSITY, DEPT. OF COMPUTER SCIENCE	Juli 2018 - Jul 2023
Research Intern	Cambridge, MA
Adobe, Creative Intelligence Lab	Jul 2019 - May 2022
Senior Application Developer	Providence, RI
Brown University, ICERM	Mar 2011 - Aug 2017
RPS Group	South Kingstown, RI
Software Developer	Jul 2010 - Nov 2010
University of Rhode Island, Division of Student Affairs	Kingston, RI
Web Developer	Jan 2010 - Jun 2010

University of Rhode Island, Conference Services & Special Program Development

*Kingston, RI* May 2005 - Dec 2009

### Kingston, RI

Aug 2023 - Current

### Publications\_\_\_\_\_

Chirp: The Impact of Private Online Self-Disclosure on Perceived Social Support Massachi T., Roy J., Choi L., Hoefer G., Wallace S., Huang J.	<b>CSCW 24</b> [to appear]
Digital Reading Rulers: Evaluating Inclusively Designed Rulers for Readers With and Without Dyslexia Nicklaus A., Cai T., Bylinski Z., Wallace S.* (*senior advising author)	СНІ 23
Web Table Formatting Affects Reading Speed on Mobile Devices Tensmeyer C., Bylinski Z., Cai T., Miller D., Nenkova A., Niklaus A., Wallace S.	WWW 23
<b>Towards Individuated Reading Experiences: Different Fonts Increase Reading</b> <b>Speed for Different Individuals</b> Wallace S., Bylinskii Z., Dobres J., Kerr B., Berlow S,. Treitman R., Kumawat N., Arpin K., Miller D., Huang J., Sawyer B.	TOCHI 22 [Journal]
<b>Readability Research: An Interdisciplinary Approach</b>	<b>FnT HCI</b> [Journal]
Personalized Font Recommendations: Combining ML and Typographic Guidelines to Optimize Readability Cai T., Wallace S., Rezvanian T., Dobres J., Kerr B., Berlow S., Huang J., Sawyer B., Bylinskii Z.	DIS 22
<b>The TESS Triple-9 Catalog: 999 Uniformly Vetted Exoplanet Candidates</b> Cacciapuoti L., Kostov V., Kuchner M., Quintana E., Colón K., Brande J., Mullally S., Chance Q., Christiansen J., Ahlers J., Di Fraia M., Durantini Luca H., Ienco R., Gallo F., de Lima L., Hyogo M., Andrés-Carcasona M., Fornear A., de Lambilly J., Salik R., Yablonsky J., Wallace S., Acharya S.	MNRAS 22
Case Studies on the Motivation and Performance of Contributors Who Verify and Maintain In-Flux Tabular Datasets Wallace S., Papoutsaki A., Tan N. H., Guo H., Huang J.	CSCW 2021 [Journal]
<b>Optimizing Electronic Health Records Through Readability</b> Ball R.V., Miller DB, Wallace S., Macias K.C., Ibrahim M., Gonzaga ER., Karasik O., Rohlsen-Neal D.R., Barrientos S., Ross E.A, Asmar A., Hughes A.M., Hancock P.A, Sawyer B.	HFES 21
<b>Sketchy: Drawing Inspiration from the Crowd</b> Wallace S., Le B., Leiva L., Haq A., Kintisch A, Bufrem G., Chang L., Huang J.	CSCW 20 [Journal]
Drafty: Enlisting Users to be Editors who Maintain Structured Data Wallace S., Van Kleunen L., Aubin-Le Quere M., Peterkin A., Huang Y., Huang J.	HCOMP 17
Publications Short Papers	
MuM'23 Workshop on Interruptions and Attention Management: Exploring the Potential of Generative AI DINGLER T., SRIVASTAVA N., WALLACE S.	AMSWS23
<b>Asynchronous Collaboration Systems for Evolving Information</b> Wallace S.	CHI DC 22
<b>Debiased Label Aggregation for Subjective Crowdsourcing Tasks</b> Wallace S.*, Cai T.*, Le B., Leiva L.* (*equal contributions)	CHI LBW 22

WALLACE S		
	., Treitman R., Huang J., Sawyer B., Bylinskii Z.	
	ing Self-Tracked Mobile Sensor and Self-Reflection Data to Help Sleep ns Infer Patterns	CHI LBW 1
	., Sasson D., Guo H.	
Smal	Abstracts and Invited Talks	
Poster	Abstracts	
A Psvchc	physical Approach for Investigating Format Readability Online	<b>VSS 2</b> 4
-	Rashid Md M., Penkova V., Giroux A., Atilgan N., Wallace S., Berlow S., Kosovicheva A., Day S.,	
Sawyer B.		
Space fo	or Readability: Effects on Reading Speed from Individuated Character	VSS 2
and Wor	rd Spacing	
WALLACE S	., Dobres J., Sawyer B., Bylinskii Z.	
Readab	ility for All: The Effect of Individualized Font Formats on Reading Speed	SSSR 2
and Con	nprehension for Students in Grades 3-8	
Day S., Sav	vyer B., Wallace S., Treitman R., Crowley K., Jordan M.	
Conside	ring the Speed and Comprehension Trade-Off in Reading Mediated by	VSS
Typogra		
WALLACE S	., Dobres J., Sawyer B.	
	., Dobres J., Sawyer B. ng Reading Outcomes Using Digital Reading Rulers for Readers With &	VSS 2
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2023-2024 Low-Code Center of Excellence Platform: Phase 1, United States Air Force, STTR

\$100,000

## **Teaching, Mentorship, Service, Awards, & Press**

#### TEACHING

2024	Instructor, Designing Interactive Systems, University of Rhode Island	CSC 592-DIS
2024	Instructor, HCI Research Seminar, University of Rhode Island	CSC 592-HCI
2023,24	Instructor, Operating Systems & Networks, University of Rhode Island	CSC 412
2023	Guest Lecture and Syllabus Design, User Interfaces & User Experience, Brown University	CSCI 0130
2022	Guest Lecture, Computer Interface Design, Tufts University	
2022	CHI Course, Research Methods for People in a Hurry: An introduction to research methods in	
2022	computer-human interaction, psychology, and human factors	
2022	Guest Lecture, A/B Testing, Brown University Medical School	
2021	Guest Lecture, Web Development 2 – Back-End Engineering, University of Luxembourg	
2021	Guest Lecture, User Interfaces & User Experience, Pomona College	
2020	Run Crowdsourcing Assignment, Human-Computer Interaction Seminar, Brown University	CSCI 2300
2018	Guest Lecture, User Interfaces & User Experience, Brown University	CSCI 130/1300
2018	Guest Lecture, Human-Computer Interaction Seminar, Brown University	CSCI 2300
2018	Run Crowdsourcing Assignment, Human-Computer Interaction Seminar, Brown University	CSCI 2300
2017	Graduate Teaching Assistant, User Interfaces & User Experience, Brown University	CSCI 130/1300
2016	Teaching Assistant, User Interfaces & User Experience, Brown University	CSCI 1300

#### Mentorship

(1 Co-Authored Published Paper) (2 Developed Open-Source Software) (3 Won Research Award)

- 2024 Marcin Pawlukiewicz<sup>2</sup>, University of Rhode Island
- 2024 **Max Mercurio**<sup>2</sup>, University of Rhode Island
- 2024 **Reid Morin<sup>2</sup>**, University of Rhode Island
- 2024 **Borano Llana**<sup>2</sup>, University of Rhode Island
- 2024 **Michael Sayers**<sup>2</sup>, University of Rhode Island
- 2023-24 Kushas Khadka<sup>2</sup>, University of Rhode Island
- 2023-24 Yusra Suhail<sup>2</sup>, University of Rhode Island
- 2022 **Jiaqi Su**<sup>2</sup>, Brown University
- 2020-21 **Long Do<sup>2</sup>**, Brown University *now at Meta*
- 2019-21 **Diana Lee**<sup>2</sup>, Brown University *now at Meta*
- 2020 Alice Marbach<sup>2</sup>, Brown University *now at Audible*
- 2019-20 Matthew Bejtlich, Rhode Island School of Design
- 2019-20 **Zhengyi Peng**<sup>2</sup>, Brown University, *now at Microsoft*
- 2018-19 Brendan Le<sup>1,2</sup>, Brown University, now at Uncountable
- 2019 Michael Bardakji, Brown University, now at Vetcove
- 2018-19 Neilly Tan<sup>1,2</sup>, Brown University, now a PhD at Univ. of Washington
- 2018 **Ari Kintisch<sup>1,2</sup>**, Brown University, *now at Squarespace*
- 2018 Andrew Park, Brown University, now a PhD Student at CMU
- 2017-18 Gabrielle Bufrem<sup>1</sup>, Brown University, now at Pivotal Labs
- 2017-18 Aman Haq<sup>1,2</sup>, Brown University, now at Microsoft
- 2017 Linda Chang<sup>1,2</sup>, Brown University, now at Nasdaq
- 2017 Aarthi Anbalagan<sup>2</sup>, Brown University, now at Microsoft
- 2017 Abraham Peterkin<sup>1</sup>, Brown University, now at Nickelodeon
- 2017 Yirui Huang\*1, Brown University & Univ. of Toronto, now at Univ. of Edinburgh
- 2016 Marianne Aubin-Le Quere<sup>1,2,3</sup>, Brown University, now a PhD at Cornell
- 2016 Lucy Van Kleunen<sup>1,2,3</sup>, Brown University, now a PhD at Univ. Colorado

#### TRAINING

- 2022 Certificate II: Sheridan Teaching Seminar Course Design, Brown University
- 2021 Certificate I: Sheridan Teaching Seminar Reflective Teaching, Brown University
- 2016 Teaching Assistant Diversity Sensitivity, Brown University
- 2016 Leadership Certification Program, Brown University

#### VOLUNTEER

- 2024 Workshop: Pathways to Success in Computer Science, University of Rhode Island
- 2024 Guest Reader about STEM and AI, East Greenwich Rhode Island School District
- 2021-22 **PhD Office Hours**, Brown University, \**Co-Created*
- 2017-18 First Year PhD Mentorship Program, Brown University
- 2017 Student Volunteer, HCOMP
- 2008-09 After Hours Coding Help, University of Limerick, \*Created

#### SERVICE

- CHI **AC**, 2025
- CHI **Reviewer**, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024
- CHI LBW **Reviewer**, 2017, 2020
- CHI Play **Reviewer**, 2019
- CIKM PC Member & Reviewer for Abstracts, 2020
- CSCW **Reviewer**, 2020, 2021, 2022, 2023
- HCOMP **Reviewer**, 2017, 2019
- IJHCI **Reviewer**, 2020
- SIGIR **Reviewer**, 2018
- WWW Dev PC Member & Reviewer, 2018
  - UIST **Reviewer**, 2018, 2021

#### Press and Media

- 2023 Readability Matters, Readability Community Interview: Dr. Shaun Wallace
- 2023 **The Washington Post**, What's your type? Try these tests to pick the perfect font for you.
- 2022 Nielsen Norman Group, Best Font for Online Reading: No Single Answer
- 2022 **Prolific**, Conduct your best research
- 2022 Fast Company, Are some fonts ageist?
- 2022 Adobe, Blog post: Readability Research: This New Field Can Help Us All Read Better
- 2021 Adobe, Blog post: Read different: User-centered approaches improve reading for all
- 2021 **Adobe**, Blog post: Re-imagining Reading
- 2021 Readability Matters, A Collaborative Interdisciplinary Readability Research Approach
- 2021 **Readability Matters**, Optimizing Electronic Health Records Through Readability
- 2021 Hacker News, Computer Science Open Rankings
- 2021 South by Southwest: Digital Reading Rulers, \* Presented by Collaborator
- 2021 Axe-Con: Virtual Readability Lab & Digital Reading Rulers, \* Presented by Collaborator
- 2020 Adobe MAX: This Changes Everything: New Approaches to Reading, \* Presented by Collaborator
- 2020 **Fast Company**, Finalist for Fast Company's Annual List of World-Changing Ideas
- 2020 EdTech Center World Education, Readability Features & Technology for Better Reading
- 2020 Readability Matters, Individual Differences in Font Preference & Effectiveness
- 2020 Readability Matters, Using the Virtual Readability Lab with College Students
- 2020 Readability Matters, Virtual Readability Lab Launched
- 2020 Readability Matters, Accelerating Adult Readers With Typeface
- 2019 Readability Matters, Towards Readability Individuation...

#### Awards

- 2022 illumi Award, UserTesting.com
- 2021 Fast Company's Annual List of World-Changing Ideas, Fast Company
- 2020 1st Place in the Just Do It Category Digital Reading Rulers, Adobe Hackweek
- 2020 Sigma Xi Honor Society, Brown University
- 2017 Graduate Fellowship, Brown University
- 2009 President's Letter for Academic Excellence, University of Limerick
- 2008 Golden Key International Honor Society, University of Rhode Island
- 2004 Beta Gamma Sigma Honor Society, University of Rhode Island

### **Research Systems and Datasets**

Drafty: A Smarter Wiki for Data An intelligent web-based spreadsheet where unpaid contributors maintain evolving data App: https://drafty.cs.brown.edu Code:https://github.com/brownhci/drafty	System
CS Open Rankings	System
A meta ranker using real-time data from CS Professors as one of its sources App: https://drafty.cs.brown.edu/csopenrankings	
Computer Science Faculty Dataset	Data
Over 5000 CS FACULTY PROFILES FROM TOP US AND CANADIAN UNIVERSITIES Data: https://drafty.cs.brown.edu/csprofessors	
Sketchy	System
A Remote Asynchronous Sketching Classroom App: https://sketchy.cs.brown.edu Code:https://github.com/brownhci/sketchy-1.0	

#### **Subjective Binary Labels for Sketches**

LABELED INSPIRATIONAL SKETCHES FROM UI/UX CLASSROOMS Data: https://github.com/brownhci/sketchy-1.0/tree/master/data

#### The Virtual Readbility Lab

Personalized Readability Experiments In the Wild App: https://readabilitylab.xyz

#### PolyMu JS Library

Optimized load time, indexing, and scrolling of Massive HTML Tables App: https://github.com/pengzhengyi/polymu

#### **FontView Web App**

EXTRACTING ACCURATE FONT ATTRIBUTES FROM VECTOR PATHS App: https://font-metrics.herokuapp.com Code: https://github.com/TianyuanCai/font-metrics Data

System

#### Library

\* Mentored Undergraduate Student

System