# **Christopher Buss**

**CONTACT** 

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**EDUCATION** 

## Oregon State University, Corvallis, OR

Ph.D. Computer Science

Expected Jun. 2025

- Thesis: Reducing the Manual Effort of Data Integration in Low- to No- Training-Data Environments
- Advisor: Arash Termehchy
- <u>Relevant Coursework:</u> Algorithms, Database Management Systems, Deep Learning, Machine Learning, Mathematical Statistics, Natural Language Processing, Reinforcement Learning, Theory of Computation

## University of Wisconsin-Parkside, Kenosha, WI

B.S. Computer Science; B.A. English

2014

**TEACHING** 

# Electrical Engineering and Computer Science, Oregon State University, Corvallis, OR

Instructor of Record (In-Person)

• CS 340: Intro. to Databases (97 students cumulatively)

Su 2022, Sp 2023, Su 2023

• CS 440: Database Management Systems (73 students)

Wi 2023

Substitute Lecturer (In-Person)

• CS 540: Database Management Systems (5 lectures)

Wi 2024

• CS 440: Database Management Systems (4 lectures)

Wi 2024

Graduate Assistant (In-Person and E-Campus)

Sept. 2018 - Present

Wide range, from core undergraduate to graduate-level. Including,

- CS 271: Computer Architecture and Assembly Language
- CS 331: Intro. to Artificial Intelligence
- CS 344: Operating Systems I
- CS 434: Machine Learning & Data Mining
- CS 464: Open Source Software
- CS 535: Deep Learning

## University of Wisconsin-Parkside, Kenosha, WI

Writing Tutor / Computer Science Tutor

Sept. 2013 - Dec 2014

- Supported ESL (English as a Second Language) students with their written assignments
- Tutored traditional and non-traditional students in a variety of computer science subjects

Supplemental Instructor (Computer Science)

Sept. 2011 - Dec 2014

Guided groups of students through labs and discussions

RESEARCH

## IDEA Lab, Oregon State University, Corvallis, OR

*Graduate Researcher* 

Sept. 2018 - Present

- PI: Arash Termehchy
- Projects: AutoD: Autonomous Data Integration; LLMs for Schema Transformations

# AWARDS Robert A. Short Graduate TA of the Year (School-Wide)

2021

One of three students awarded title of "Outstanding Graduate"

2014

#### **INDUSTRY**

## Digital Measures, Milwaukee, WI

Software Developer

Feb. 2015 - Aug. 2018

- Acted as a database design consultant; managed client databases.
- Performed data integration, transformation, and schema modifications over client databases.

#### **PUBLICATIONS**

Christopher Buss, Jasmin Mousavi, Mikhail Tokarev, Arash Termehchy, David Maier, and Stefan Lee. 2023. "Effective Entity Augmentation by Querying External Data Sources", *Proc. VLDB Endow.* 16, 11 (*July* 2023), 3404–3417. DOI: 10.14778/3611479.3611535 [Code]

Christopher Buss, Jasmin Mousavi, Mikhail Tokarev, Arash Termehchy, David Maier, and Stefan Lee. 2023. "Generating Data Augmentation Queries Using Large Language Models", Joint Proceedings of Workshops at the 49th International Conference on Very Large Data Bases (VLDB 2023). URL: https://ceurws.org/Vol-3462/LLMDB3.pdf [Code]

#### **PRESENTATIONS**

Christopher Buss, Jasmin Mousavi, Mikhail Tokarev, Arash Termehchy, David Maier, and Stefan Lee. Generating Data Augmentation Queries Using Large Language Models, Second Table Representation Learning Workshop @ NeurIPS '23, December 2023 (*Poster*) [Poster]

Christopher Buss, Jasmin Mousavi, Mikhail Tokarev, Arash Termehchy, David Maier, and Stefan Lee. Generating Data Augmentation Queries Using Large Language Models, Workshop on Databases and Large Language Models (LLMDB) @ VLDB '23, September 2023 (*Oral*) [Slides]

Christopher Buss, Jasmin Mousavi, Mikhail Tokarev, Arash Termehchy, David Maier, and Stefan Lee. "Effective Entity Augmentation by Querying External Data Sources", VLDB '23, August 2023 (Oral and Poster) [Recording] [Slides] [Poster]

# SERVICE

#### AI Graduate Student Association (AIGSA), Oregon State University

Secretary of Finances

May 2022 - Jun. 2023

• Managed funding requests; tracked spending and allocated funds for events.

Co-President (Co-Founder)

May 2020 - Jun. 2021

• Defined club mission; planned/hosted professional development and social activities.

#### **External Reviewer**

• ACM Web Conference (WWW)

2024

International Conference on Extending Database Technology (EDBT)

2022 - 2024

• IEEE International Conference on Data Engineering (ICDE)

2021 - 2022

#### **Artificial Intelligence Application Support Program (AIASP)**

AI Program Applicant Mentor (Specifically for Historically Underrepresented Candidates)

2023

• Gave feedback on application; answered questions about processes and student life.

## Associate Dean for Grad. Programs Search, Oregon State University

Graduate Student Representative

2021

• Met with applicants and provided feedback to the hiring committee.