

DANIEL SZELOGOWSKI

Janesville, WI 53545 | (989) 475 - 2922 | dszelogowski@gmail.com

EDUCATION

University of Wisconsin at Whitewater

M.S. Computer Science **2022**

- Thesis: *Deep Learning for Musical Form: Recognition and Analysis*
- Graduate Advisor: Lopamudra Mukherjee

University of Wisconsin at Whitewater

B.M. Music – Choral Music Education Emphasis **2021**

- Minors: Computer Science, Web Development and Administration
- Major Professor: Brian Leeper
- Major Advisor: Sharri VanAlstine
- Honors: Dean's List, Teacher Internship, Student Involvement Award, Music Department Scholarship, Student Leadership Grant Nominee, Outstanding Senior Award Nominee

University of Wisconsin at Milwaukee

A.A.S. Arts and Sciences **2021**

- Major Advisor: Mike Exum
- Honors: Dean's List

Blackhawk Technical College, Janesville WI

General Studies **2015 - 2017**

- Articulated coursework

HONORS AND AWARDS

UWW Dean's List **May 2021**

UWM Dean's List **May 2021**

UWW Lucy Baker Student Involvement Award Recipient **Apr. 2021**

UWW James R. Connor Student Leadership Grant Nominee **Apr. 2021**

UWW Reuben Klumb Outstanding Senior Award Nominee **Apr. 2021**

UWW Teacher Internship w/ Scholarship **Mar. 2021**

NAMM President's Innovation Award **Jan. 2021**

UWW Dean's List **Dec. 2020**

UWW Dean's List **May 2020**

UWW Dean's List **May 2018**

UWW Music Department Scholarship **Mar. 2017**

TEACHING EXPERIENCE

Outschool.com

Online Instructor **2020 - 2021**

Remote instruction of general music and computer science courses for middle and high school age students, providing AP and college-level curricula in music theory, introductory and intermediate programming languages, data structures, machine

learning, discrete math, computer science principles, and applied instrumental instruction

Marshall Middle School, Janesville WI

Assisting Student Teacher

2019

Helping teach a middle school STEM summer “academy” course for grades 5-9 involving technology research, big data, and basic engineering projects revolving around civil and mechanical engineering

Freelance

Private Studio Instruction

2017 - Present

Individual instruction of piano, guitar, voice, music theory, cello, programming, and computer science

CodeWizardsHQ.com

Online Programming Instructor

2016

Remote instruction of web design to middle school students over the course of a 12-week curriculum

Parker High School, Janesville WI

Teaching Assistant

2016 - 2019

Helping teach AP Computer Science, Data Structures, AP Computer Science Principals, Web Design, App Development, Robotics, and Introductory Programming courses, as well as acting as a clinician for elementary and middle school STEM and robotics courses (including judging for FIRST Robotics)

RELATED EXPERIENCE

FIRST Robotics, Janesville WI

Competition Judge

2016 - 2019

Assisted in running local robotics competitions, training staff, assisting and interviewing student teams, judging robot designs and large-scale project proposals

ARISE Virtual Academy, Janesville WI

Webmaster

2015 - 2017

Updated and created web pages for school website, managed school databases, maintained course and instructor information pages

PUBLICATIONS AND PAPERS

“Emotion Recognition of the Singing Voice: Toward a Real-Time Analysis Tool for Singers”

Arxiv: 2105.00173

May 2021

“Jazz and Politics: Connections Between Black Ethnic Struggles and Jazz History”

ISBN: 978-1105835100 [Lulu Publishing]

Mar. 2021

“Generative Deep Learning for Virtuoso Classical Music: Generative Adversarial Networks as Renowned Composers”

Arxiv: 2101.00169

Dec. 2020

“Optimizing Data Cube Visualization for Web Applications: Performance and User-Friendly Data Aggregation”

Arxiv: 2101.00171

Dec. 2020

“Visualization Techniques with Data Cubes: Utilizing Concurrency for Complex Data”

Arxiv: 2101.00170

Nov. 2020

“Undergraduate Musicology Research: Studies in Music History – Francesco Landini, Frederic Chopin, and Karol Szymanowski”

ISBN: 978-1794731356 [Lulu Publishing]

Nov. 2019

“An Introduction to Film Scoring in Horror Movies”

ISBN: 978-1794899216 [Lulu Publishing]

May 2018

“Chunk List: Concurrent Data Structures”

Arxiv: 2101.00172

May 2017

LANGUAGES

English – Native language

German – Limited working proficiency

Spanish and Italian – Elementary proficiency

MEMBERSHIPS

Music Teachers National Association [MTNA]

Feb. 2021

Institute of Electrical and Electronics Engineers [IEEE]

Jan. 2021

Association for Computing Machinery [ACM]

Dec. 2020

National Association for Music Merchants [NAMM]

Nov. 2020

American String Teachers Association [ASTA]

May 2020

American Choral Directors Association [ACDA]

Sep. 2018

Wisconsin Choral Directors Associate [WCDA]

Sep. 2018

National Association for Music Education [NAfME]

May 2018

National Association for Teachers of Singing [NATS]

Sep. 2017

Computer Science Teachers Association [CSTA]

May 2017