
SCOTT DISPENSA

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OBJECTIVE

Pursue graduate study in computer science with a focus on artificial intelligence and machine learning, building on strong academic performance and applied research experience.

RESEARCH INTERESTS

Machine learning, artificial intelligence, real-time signal processing, computational acoustics, human-computer interaction, and applied DSP.

EDUCATION

Oregon State University — B.S. Computer Science (Expected May 2026)

GPA: 3.91

Relevant coursework: Data Structures, Algorithms, Systems Programming (C), x86 Assembly, Databases, Web Development (Node/React), Software Engineering, Linear Algebra for Machine Learning, Calculus

Technical skills: Python, JavaScript/Node, React, C, Java, Typer, x86 Assembly, Git, Linux/Unix

University of California, San Diego Extension

Completed coursework in Calculus (I and II) and Linear Algebra for Machine Learning

The Juilliard School — M.M. Voice, 2004

Westminster Choir College — B.M. Voice Performance, 2002

TECHNICAL PROJECTS

Formant Tuner — Independent Research Project

A real-time diagnostic and vowel-classification tool for singers, written in Python. Designed DSP pipelines for formant tracking, vowel classification, and spectrogram rendering. Built a PyQt-based UI for calibration and visualization. Developed custom algorithms for vowel interpolation and plausibility modeling.

GitHub: github.com/pezscott1/formant_tuner

OSU PORTFOLIO PROJECTS

Six academic and applied projects across systems programming, assembly, Python CLI tools, web development, and database design. Demonstrates applied ML readiness, algorithmic thinking, and end-to-end system design.

GitHub: github.com/pezscott1/OSU-portfolio-projects

EXPERIENCE

The Metropolitan Opera — New York, NY Full-Time Chorus Bass (2010–Present)
Performed in more than 100 productions across 7 languages. Collaborated with an 80-member chorus in high-pressure rehearsal and performance cycles. Served on the AGMA contract negotiating committee (2011–2018), representing chorus members in multi-year labor negotiations.

SKILLS

Technical: Python, JavaScript/Node, React, C, Java, Typer, x86 Assembly, DSP fundamentals, real-time audio processing, PyQt UI development, Git, Linux/Unix

Languages: French (advanced–intermediate), Japanese (intermediate), Italian/German/Spanish (basic–intermediate)

Additional: Ultrarunning, triathlon, Olympic weightlifting; strong collaboration and communication skills