

PAT 514 (Winter 2025)

# Contemporary Software Techniques in Performing Arts Technology

## Introduction

Instructor: Hao-Wen Dong



SCHOOL OF MUSIC, THEATRE & DANCE  
PERFORMING ARTS TECHNOLOGY  
UNIVERSITY OF MICHIGAN

# Welcome! Tell Us about Yourself!

- Name
- Pronouns
- Program/year
- Research interests
- What is your **main instrument** (if any)?
- What is your **tech stack**?
- What is **one new tech you always wanted to explore**?

# About Me

- Hao-Wen (**Herman**) Dong
- Pronouns: he/him
- Email: **hwdong**@umich.edu
- Office: **Stearns 131** (15 min walk to the north from Moore)
- Office hours: By appointments
- Research areas: Generative AI for music and audio creation



# Course Logistics

# Communications

- **Course website:** Syllabus, schedule, readings, recordings, etc.
- **Email:** Announcements
- **Google Chat:** Q&A



[hermandong.com/teaching/  
pat514\\_winter2025](https://hermandong.com/teaching/pat514_winter2025)

# Course Format

- **Workshop** style
- The **semester-long project** is the main component of this course!
- In class, we will be **discussing papers**
  - (Week 2–4 ) **How to *read, write and review* a paper?**
  - (Week 5–6) **Peer review session** on your writing samples
  - (Week 7–8) **Paper discussions** on best papers in selected conferences/journals
  - (Week 10–13) **Paper discussions** on related work to your project
  - (Week 15–16) **Project presentation & peer review session** on report drafts
  - Before each class, we will do **quick 10-min updates** on your project progress

# Assignments

- **Four assignments**
  - **Peer review** (writing samples)
  - **Paper review**
  - **Paper review**
  - **Peer review** (report drafts)
- Due at **11:59pm ET** on the date specified
- **No late submissions!** Submit your work early and update it later.

# Project

- **Open-ended individual project**
- Requirement: **New techniques you haven't explored before**
- **Milestones** (tentative)
  - **Pitch:** Jan 29
  - **Report draft:** Apr 2
  - **Presentation:** Apr 14
  - **Final report:** Apr 28
- Due at **11:59pm ET** on the date specified
- **No late submissions!** Submit your work early and update it later.



# Grading

- **Assignments (40%)**
  - Peer review (writing samples) 15%
  - Paper review 5%
  - Paper review 5%
  - Peer review (report drafts) 15%
- **Project (60%)**
  - Presentation 10%
  - Results 25%
  - Final report 25%
- All **grading** and **regrade requests** will be handled on [Gradescope](#)

## Policies: Attendance

- In-person attendance is strongly encouraged
- **No recordings** to facilitate discussions
- **Please attend in-person**
  - When **we're discussing your writing**
  - When **you're leading the paper discussion**
  - For **project pitch** (Jan 29)
  - For **project presentation** (Apr 14)

## Policies: Generative AI Usage

- Feel free to use GenAI tools (U-M GPT, ChatGPT, Stable Diffusion, DALLE, etc.) in your workflow. However, **you must disclose your usage of GenAI services in your write-ups.**
- **You take full responsibility for AI-generated materials as if you had produced them yourself:** ideas should be attributed and facts should be true.

## Policies: Academic Integrity

- Plagiarism and cheating violate SMTD's Academic Code of Conduct. **All plagiarism, cheating and other academic misconduct cases will be reported to SMTD's Office of Academic and Student Affairs.**
- **All assignments must be completed on your own.** You are welcome to exchange ideas with your peers, but this should be in the form of concepts and discussion, not in the form of writing and code.
- You must **provide proper citations/references for any external resources** you use in your writing and code.

| Any Questions on the Syllabus?



# What's Next?

- **Think about what you want to work on for the whole semester!**
  - Requirement: **New techniques you haven't explored before**
- **Reading (We will discuss these papers in the next class)**
  - [Efficient Reading of Papers in Science and Technology](#) by Michael J. Hanson and Dylan J. McNamee
  - [How to Read a Paper](#) by Srinivasan Keshav
  - [How to read a research paper](#) by Michael Mitzenmacher
  - (Optional) [How to Read a Technical Paper](#) by Jason Eisner
  - (Optional) [Perceptions of scientific research literature and strategies for reading papers depend on academic career stage](#) by Katharine Hubbard and Sonja Dunbar