Evan M. Matthews

+1 (309) 256-9709 | evanmm3@illinois.edu

 ematth | ematth | ematth.dev

Champaign, Illinois - 61820, USA

RESEARCH INTERESTS

Seeking a challenging position in [your field] to leverage my expertise in [your key skills]. Aiming to contribute to innovative projects at the intersection of [your interests] and practical problem-solving in fields such as [specific areas of interest].

EDUCATION

- **University of Illinois Urbana-Champaign** — *August 2023 - May 2025*
  MS in Computer Science — Urbana, IL
  ○ Area: Artificial Intelligence
  ○ Thesis: ***Audio Generation Improvement through Text Prompt Recaptioning***
  "With the rise of Audio Generation through machine learning, the task of training such models for improvement has drastically increased the amount of time and computational resources needed to produce good results. Inspired by developments in Text-to-Image training, I propose training a text-to-text model to translate or 'recaption' prompts to improve model generation for any Text-to-Audio model."
  ○ Advisor: Prof. Paris Smaragdis
  ○ Selected Courses: Machine Learning for Computer Vision, Machine Learning for Signal Processing, Data Mining, Numerical Analysis

- **University of Illinois Urbana-Champaign** — *August 2023 - May 2025*
  BS in Computer Science + Music, High Honors — Urbana, IL
  ○ GPA: 3.76/4.00
  ○ Capstone Advisor: Prof. Zuofu Cheng
  ○ Selected Courses: Machine Learning, Data Structures, Algorithms, Computer Vision, Music Theory, Music Composition

- **Metamora Township High School** — *May 2019*
  High School Diploma, High Honors — Metamora, IL
  ○ Chess Team, Wind Ensemble, Jazz Ensemble, National Honor Society, Cross Country, Private Math Tutor
  ○ GPA: 3.93/4.00

PROFESSIONAL EXPERIENCE

- **Haken Audio [ ]** — *November 2021 - August 2022*
  Product Manufacturer — Champaign, IL
  ○ Developed [specific achievement] achieving [specific metric] in [specific area]
  ○ Implemented [technology/method], enhancing [specific aspect] by [specific percentage]
  ○ Conducted analysis on [specific data], identifying [key findings]
  ○ Presented findings at [specific event], receiving [specific recognition]

UNIVERSITY APPOINTMENTS

- **University of Illinois Urbana-Champaign**
  Teaching Assistant — Urbana, IL
  ○ CS 545 Machine Learning for Signal Processing - Prof. Minje Kim (Fall 2024)
  ○ CS 448 Audio Computing Laboratory - Prof. Paris Smaragdis (Spring 2024)
  ○ CS 340 Introduction to Computer Systems - Prof. G. Carl Evans (Fall 2023)
  ○ ECE 402 Electronic Music Synthesis
    - Prof. Zuofu Cheng (Fall 2022)
    - Prof. Lippold Haken (Spring 2022)

OTHER TEACHING EXPERIENCE

- **Public Math Tutor** *June 2023 - May 2024*
  Illinois Tutoring Initiative Normal, IL
  ◦

- **Undergraduate Mentor** *July 2024 - Present*
  ACM @ UIUC Urbana, IL
  ◦

- **Session Lecturer** *October 2022 - March 2023*
  CS SAIL, UIUC Urbana, IL
  ◦

- **Undergraduate Mentor** *June 2022 - December 2022*
  Women in Computer Science, UIUC Urbana, IL
  ◦

- **Private Math Tutor** *2018 - 2019*
  Metamora Township High School Metamora, IL
  ◦

PROJECTS

- **Project A: [Brief Description]** *Month Year - Month Year*
  Tools: [List of tools and technologies used] [⊙]
  ◦ Developed [specific feature/system] for [specific purpose]

  ◦ Implemented [specific technology] for [specific goal], achieving [specific result]

  ◦ Created [specific component], ensuring [specific benefit]

  ◦ Applied [specific method] to analyze [specific aspect]

- **Project B: [Brief Description]** *Month Year*
  Tools: [List of tools and technologies used] [⊙]
  ◦ Developed [specific model/system], achieving [specific metric]

  ◦ Implemented [specific feature], processing [specific volume] of data

  ◦ Created [specific visualization] for [specific purpose]

  ◦ Developed [specific component] for easy integration with [specific system]

PATENTS AND PUBLICATIONS S=IN SUBMISSION, T=THESIS

[T.1] **Evan Matthews**. (*ongoing*). "Audio Generation Improvement through Text Prompt Recaptioning".

[S.1] Yuxuan Chen*, **Evan Matthews***, Victor Zhao*, Craig Zilles, Matthew West (2024). "A Case for Bayesian Grading".

TECHNICAL WORKS

[1] **Evan Matthews***, Vikram Ramavarapu*, Krishnaveni Unnikrishnan* (*ongoing*). "Untitled Predictive Model for Internet Addiction".

[2] **Evan Matthews** (*ongoing*). "Optical Music Recognition for LilyPond File Generation".

[3] **Evan Matthews** (May 2023). "Optical Music Recognition for LilyPond File Generation". [🌐]

[4] **Evan Matthews***, Nic Prate* (December 2023). "Nearest Neighbor Classification for Classical Image Upsampling". [🌐 ⊙]

* *Equal authorship*

SKILLS

- **Programming Languages:** Language 1, Language 2, Language 3, Language 4, Language 5
- **Web Technologies:** Technology 1, Technology 2, Technology 3, Technology 4, Technology 5
- **Database Systems:** Database 1, Database 2, Database 3
- **Data Science & Machine Learning:** Tool 1, Tool 2, Tool 3, Tool 4, Tool 5, Tool 6
- **Cloud Technologies:** Cloud Platform 1, Cloud Platform 2, Cloud Platform 3
- **DevOps & Version Control:** Tool 1, Tool 2, Tool 3, Tool 4, Tool 5
- **Specialized Area:** Skill 1, Skill 2, Skill 3, Skill 4
- **Mathematical & Statistical Tools:** Tool 1, Tool 2, Tool 3, Tool 4, Tool 5
- **Other Tools & Technologies:** Tool 1, Tool 2, Tool 3, Tool 4, Tool 5
- **Research Skills:** Skill 1, Skill 2, Skill 3, Skill 4, Skill 5, Skill 6

HONORS AND AWARDS

- **James Scholars Program** *May 2023*
  UIUC College of Fine and Applied Arts [🌐]
  ○

- **University Dean's List** *Fall 2019, Spring 2020, Spring 2021*
  University of Illinois Urbana-Champaign [🌐]
  ○

- **Second Place, Keyboard Solo** *January 2019*
  ILMEA Composition Contest, Illinois Music Education Association [🌐]
  ○ "Well-Mannered Cakewalk"

- **Second Place, Keyboard Solo** *January 2018*
  ILMEA Composition Contest, Illinois Music Education Association [🌐]
  ○ "Crossing Dreams"

LEADERSHIP EXPERIENCE

- **Co-Chair, SIGMusic** *August 2023 - Present*
  ACM @ UIUC [🌐]
  ○

- **Treasurer** *May 2022 - May 2023*
  ACM @ UIUC [🌐]
  ○

- **Co-Chair, Social Committee** *August 2021 - May 2022*
  ACM @ UIUC [🌐]
  ○

- **Board Member, Student Advisory Board** *August 2021 - May 2023*
  UIUC School of Music
  ○

PROFESSIONAL MEMBERSHIPS

- **Association for Computing Machinery**, Membership ID: 4979881 *September 2023 - Present*
- **University of Illinois Alumni Association**, Membership ID: XXXXXXXX *June 2023 - Present*

ADDITIONAL INFORMATION

Languages: English (Native), Spanish (Intermediate), Mandarin (Elementary)
Interests: Interest 1, Interest 2, Interest 3, Interest 4

REFERENCES

1. **Reference Person 1**
   Job Title, Department
   Organization/Institution Name
   Email: email1@example.com
   Phone: +X-XXX-XXX-XXXX
   Relationship: [e.g., Thesis Advisor, Manager, etc.]

2. **Reference Person 2**
   Job Title, Department
   Organization/Institution Name
   Email: email2@example.com
   Phone: +X-XXX-XXX-XXXX
   Relationship: [e.g., Project Supervisor, Colleague, etc.]

3. **Reference Person 3**
   Job Title, Department
   Organization/Institution Name
   Email: email3@example.com
   Phone: +X-XXX-XXX-XXXX
   Relationship: [e.g., Mentor, Collaborator, etc.]