

# Justin Smeya

Houston, TX

## EDUCATION

---

### The Honors College at Lone Star College

May 2026

*Honors Associate of Science, Computer Science*

4.0 GPA

Honors and Awards: The Honors College, Chancellor's Fellow Scholar, Chancellor's Fellow Capstone Award, Kingwood STEM Scholar (x2), Phi Theta Kappa Honor Society, President's Honor List (x3)

## RESEARCH PAPERS & PRESENTATIONS (By semester)

---

### Creativity vs. Computation: Accessibility and Computational Trade-offs between Digital Audio

Spring 2026

#### Workstations and AI Music Generation

- **(In progress)**
- This study analyzes the accessibility and computational trade-offs between Digital Audio Workstations and AI music generation tools, with the aim of uncovering historical patterns and implications of technological advancement in music production.

### Pythagorean Pixels: Enhancing STEM Relevance in Higher Education through Terraria

Fall 2025

- **Presented at Honors Undergraduate Research Day, Lone Star College-Kingwood**
- This study examines various classroom-taught concepts from higher STEM education coursework in the underlying mechanics of the 2D sandbox *Terraria* (2011), with the aim of improving the perceived relevance of higher STEM education

### Bridging Cultures: International and Professional Diversity in Strasbourg, France

Fall 2025

- Presented at **International Education Symposium, Lone Star College-University Park**
- Winner for the **Distinguished Intercultural Reflection Poster**
- Sponsored by Lone Star College and in partnership with CESI Engineering School, this two-week trip to Strasbourg, France, gave me insight into how artificial intelligence is being used to advance modern innovation, and provided me with a rich, unforgettable experience abroad

### "Taking The Red Pill": Nick Bostrom's Simulation Hypothesis in *The Matrix* (1999)

Spring 2025

- Presented at the **Richard Macksey National Undergraduate Humanities Research Symposium, Johns Hopkins University** (Mar. 2026)
- Presented at **Gulf Coast Intercollegiate Consortium, Houston Community College**
- Presented at **Honors Undergraduate Research Day, Lone Star College-Kingwood**
- This study explores the parallels between *The Matrix* (1999) and Nick Bostrom's Simulation Hypothesis (2003), with an aim to identify the religious and philosophical implications of viewing reality as a computer simulation

### Synthetic Solutions: Comparing AI Models in Chemistry Problem Solving

Spring 2025

- Presented at **Honors Undergraduate Research Day, Lone Star College-Kingwood**
- This study evaluates the chemistry problem-solving performance of three AI models, ChatGPT, Copilot, and DeepSeek, with an aim of understanding their accuracy, reasoning clarity, and types of conceptual errors

### Lights, Camera, AI: An Exploratory Study of Generative AI in the Film Industry

Fall 2024

- Presented at **Honors Undergraduate Research Day, Lone Star College-Kingwood**
- This study investigates the contributions and ethical implications of implementing artificial intelligence and machine learning tools in modern film production with an aim to recognize how technological advancements are shaping prominent industries.

## GLOBAL STUDIES

---

**Honors College International Capstone (Barcelona, Spain), *The Honors College - Lone Star College*** May 2026  
(Upcoming)

- Awarded a fully covered, collaborative, international experience to Barcelona, Spain as a component of cultural reflection to fulfill the cultural competency requirement under the Honors College Chancellor's Fellow scholarship.

**Smart Innovation: Enhancing Ideas with AI (Strasbourg, France), *CESI Engineering School*** Jul. 2025

- A two-week program in Strasbourg, France in partnership with CESI Engineering School that explored the applications of artificial intelligence in modern innovation, combining theoretical knowledge with hands-on experience

## LEADERSHIP & COMMUNITY INVOLVEMENT

---

**AI & Computer Science Club, Lone Star College (4hrs/week, 32 weeks/yr)** Apr. 2025 - Present  
*President*

- Planned and led meetings to discuss recent events, industry standards, and controversial topics surrounding artificial intelligence and computer science
- Promoted academic and professional development by connecting students with internships, research opportunities, and industry professionals

**Machine Learning & Data Science Club, Lone Star College (2hrs/week, ^)** Aug. 2025 - Present  
*Vice President*

- Supported the President in preparing club meetings and events to gain insight into the industry surrounding machine learning and data science
- Promoted hands-on experience by conducting relevant projects that improved campus life in terms of sustainability and development (ex. gardening robot, upcoming)

**Honors College Leadership Program, Lone Star College (2hrs/week, ^)** May 2025 - Present  
*Events Coordinator*

- Coordinated a variety of events within the Honors College to cultivate a professional and collaborative Honors community

**Philosophy and Cognitive Science Club, Lone Star College (1hr/week)** Feb. 2026 - Present  
*Active Member*

- Provided meaningful perspectives in weekly, in-depth conversations surrounding a multitude of Philosophical topics, including religion, reality, and consciousness, and how they relate to and affect society on a larger scale

**Crossroads Fellowship Church (5hrs/week, year-round)** Oct. 2021 - Present  
*Worship Team Member*

- Served as a volunteer drummer (and soon bass guitarist) in rotation for multiple worship groups on various weekdays and weekends to help cultivate an impactful religious environment

## PROFESSIONAL EXPERIENCE

---

**Lone Star College, Houston, TX (14hrs/week, 42 weeks/yr)** Nov. 2024 -Present  
*PC Technician I, PC Technician II*

- **Promoted to PC Technician II** (Dec. 2025)
- Diagnosed and repaired hardware and software issues across a variety of systems to ensure a stable and optimal technological infrastructure for students and faculty
- Maintained organized documentation of repairs and procedures using versatile ticketing systems

**Mathnasium, Houston, TX (10hrs/week)**

Sept. 2024 - Nov. 2024

*Math Instructor / Tutor*

- Taught math concepts ranging from basic arithmetic to advanced calculus to students in grades K-12 to build confidence in problem-solving and independent learning
- Collaborated with other instructors to tailor student lessons and implement personalized learning plans, helping students improve grades and subject performance

## **EXTRACURRICULAR ACTIVITIES**

---

**Musicianship, Composition & Production, Independent (16-20hrs/week, year-round)**

- Continued percussion expertise through multi-genre **drum set** performance
- Expanded into **bass, acoustic, and electric guitar**; arranged and recorded multi-instrument covers
- Applied formal music theory training to **piano and composition**
- Composed **20+ original works** including marimba solos, drumline cadences, video game scores, and original contemporary songs, with more in the works

**Percussionist, Summer Creek High School (18-32hrs/week, 36 weeks/yr)**

Jun. 2020 – May 2024

- **Drum Captain, 2023-2024**
- **Librarian, 2022-2023**
- Percussionist in Marching, Concert, and Jazz Bands; additionally performed with Orchestra and Choir as needed for ensemble and concert performances.
- Gained experience with music theory, ear training, and a vast range of percussion instruments

**Summer Creek Drumline (^)**

Jun. 2021 – May 2024

- Served the drumline for the SCHS Marching Band through frequent performances and competitions
- Organized weekly elementary school outreach, recruitment, and performances
- Performed at annual neighborhood gatherings and events

## **ADDITIONAL AWARDS**

---

**1<sup>st</sup> Alternate, TMEA 6A All-State Band**

Jan. 2024

**1<sup>st</sup> Place, Aldine Drumline Roundup**

Sept. 2023

**2<sup>nd</sup> Chair, TMEA All-Region Symphony Orchestra**

Sept. 2023

**3<sup>rd</sup> Chair, TMEA All-Region Wind Ensemble**

Dec. 2023

**Texas Music Scholar (x2), TMEA**

May 2023, May 2024

**Rookie of the Year, Crossroads Fellowship Church**

Aug. 2022

## **SKILLS**

---

**Programming Languages**

- **Intermediate:** Python, Lua
- **Familiar:** Java, C++, HTML/CSS
- **Beginner:** JavaScript, C#

**Hardware**

- Computer installation, hardware troubleshooting, system upgrades, maintenance

**Software**

- Software troubleshooting, game development, frontend web development, graphic design, music production