

Samuel van Vuuren

Composer · Music Technologist

samuel.p.vanvuuren@gmail.com · +1 331 806 6938 · samuelvanvuuren.com · github.com/sampjvv

EDUCATION

Wheaton College

2022 – May 2026

Wheaton, Illinois

Dual degree: **B.M. Music Composition** and **B.S. Computer Science**; Minor in Mathematics.

summa cum laude · GPA 3.92/4.00 · 203 credits in four years

- Composition study with [\[teacher names — to collect\]](#).
- Senior Composition Recital, Armerding Concert Hall, 21 Feb 2026 — full-evening program of original chamber works, including three premieres (*Dawn*, *Král' Času*, *Scaling Veiled Mountains* complete).
- Selected coursework: Computer Music, Digital Music Technology, Advanced Composition, Acoustic Recording Techniques, Machine Learning, Computational Linguistics.

SELECTED WORKS

Depths (2026, in progress) — violoncello and electronics, [\[TBD\]](#). Fixed-media electronics generated with the composer's Granular Spectrum Synthesizer; live performance cues in SuperCollider. Completion expected autumn 2026.

Dawn (2026) — brass quintet, 6 min.

Scaling Veiled Mountains (2025–26) — flute and string quartet, 18 min.

Král' Času (2025) — flute, clarinet, bassoon, horn, euphonium, percussion (congas, timpani), organ, and string quartet, 6.5 min.

Tropics in New York (2024) — baritone and piano, 3.5 min.

Complete works list attached · scores & recordings: samuelvanvuuren.com/works

MUSIC TECHNOLOGY

Granular Spectrum Synthesizer

2025–26

Java

Spectral-analysis-driven granular synthesis instrument extending Tim McDunn's original synthesis engine. Designed and built the full GUI (breakpoint-envelope editors, waveform region rendering), a real-time 16-voice polyphonic MIDI mode, a preset library system, and headless CLI rendering. [github: sampjvv/granular_spectrum_playground](https://github.com/sampjvv/granular_spectrum_playground)

Depths production pipeline

2026

Fixed-media materials for *Depths* (cello and electronics) rendered with the synthesizer above; live performance cues built in SuperCollider.

Markov Chain Composer

2026

Java/Swing · github.com/sampjvv/markov-chain-app

Generative sketching tool for composition: interactive transition-matrix editor, live spectrum visualizer, multi-strata synthesis.

HONORS & AWARDS

- Presidential Scholarship (four-year merit award), Wheaton College, 2022–26
- Dean's List, all semesters, 2022–26
- Honorable Mention (piano performance), Ben Heppner Concerto Competition, Wheaton Conservatory, Oct 2023 — Mozart, Concerto No. 23 in A major, K. 488, mvt. i

TEACHING EXPERIENCE

Music Theory Teaching Assistant

Jan – May 2025

Wheaton College Conservatory of Music

Tutored students across Theory I, III, and IV; graded assignments with written feedback on analysis.

CS Teaching Assistant & Lab Assistant

Jan – Dec 2024

Wheaton College Dept. of Mathematics and Computer Science

Guided students through Java, C, and Python projects; prepared review sessions; graded labs and projects.

PROFESSIONAL & AUDIO EXPERIENCE

Software Engineer — AI Language Technology

May 2024 – present

Biblica Inc. / Frontier R&D Ltd., Palmer Lake, CO

- Open-source AI translation platform ([genesis-ai-dev/codex-editor](#)) serving 500+ translators worldwide; part-time during studies, full-time since June 2026.
- TypeScript/React/Vue front end; intelligent-assistance features integrating OpenAI and Anthropic models.

Broadcast Mixer

Sept 2025 – present

Wheaton Bible Church, Wheaton, IL

Live broadcast mixing of orchestra, choir, organ, soloists, and speech.

LEADERSHIP & COMMUNITY

Music Director / Camp Director / Counselor

Summers 2020–23, 2025

TriP Opal summer camp, Hermanovce nad Topľou, Slovakia (volunteer)

Directed the music program and camp staff for a summer camp serving Roma communities in eastern Slovakia.

SKILLS & LANGUAGES

- **Music technology:** SuperCollider (basic), Sonic Pi; Pro Tools, Logic Pro (studio coursework); MuseScore (primary notation)
- **Programming:** Java, TypeScript, Python, C, SQL; React, Vue; audio DSP (FFT analysis/resynthesis, granular synthesis, convolution)
- **Piano:** advanced (concerto competition honorable mention)
- **Languages:** English (native), Slovak (fluent), Afrikaans (conversational), Czech (comprehension), German (basic)