

CV

Serkan Sevilgen

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Serkan Sevilgen is an Istanbul-based computer programmer, electroacoustic music composer, and researcher. He is the co-founder of the sound art initiative *Soundinit*, founder of the networked telematic music ensemble *WORC*, and a member of the laptop ensemble *ICE* (Istanbul Coding Ensemble). His musical works and research focus on algorithmic music, multichannel diffusion, sonification, networked music systems, web audio, live coding, stochastic procedures, and soundscape.

Education

| Degree | Institution | Location | Years |
|-----------------|---|----------|-------------|
| PhD | Istanbul Technical University / MIAM / Sonic Arts | Istanbul | 2024 Spring |
| MA ¹ | Yildiz Technical University / Music and Performing Arts | Istanbul | 2019 - 2023 |
| MA ² | Istanbul Technical University / MIAM / Sonic Arts | Istanbul | 2019 - 2021 |
| BA | Yildiz Technical University / Music Technology | Istanbul | 1999 - 2003 |

Work

| Title | Company | Location | Years |
|-----------------------------|----------------------------|---------------|-------------|
| Guest Lecturer ³ | Bahcesehir University | Istanbul | 2023 Fall |
| Director of Engineering | Temblor, Inc | San Francisco | 2014 - |
| Senior Software Developer | Beşiktaş Football Club | Istanbul | 2012 - 2018 |
| Senior Software Developer | Bona Digital Agency | Istanbul | 2011 - 2012 |
| Senior Software Developer | Freelance (E-commerce) | Istanbul | 2011 - 2011 |
| Senior Software Developer | Modanisa (E-commerce) | Istanbul | 2011 - 2011 |
| Senior Software Developer | Porland (E-commerce) | Istanbul | 2007 - 2010 |
| Founder | Dijital Pazar (E-commerce) | Istanbul | 2003 - 2007 |

Skills

Programming

Linux, Python, JS, Go, PHP, SQL, AWS, Big Data, Docker, GIS, Machine Learning

Music-specific Programming

Csound, SuperCollider, MaxMSP, Arduino, Bela, Lilypond

Music

Spatial audio, sonification, web audio, networked music, live coding, stochastic procedures

¹Thesis title: "A MULTISCALE COMPOSITION METHOD BASED ON IMAGE SONIFICATION"

²Project title: "WORC: A WEB-BASED PLATFORM FOR TELEMATIC COLLABORATIVE ELECTRONIC MUSIC PERFORMANCE"

³Teaching the course "Programming for Music and Audio"

Music Performances

| Event | Location | Year |
|--|------------------------|------|
| IEEE Int. Symposium on the Internet of Sounds | Erlangen / Germany | 2024 |
| ICSC International Csound Conference | Vienna / Austria | 2024 |
| Compophonic Sessions Vol. 1 Concert | Istanbul / Turkey | 2024 |
| Talinn Music Week / Zenith | Talinn / Estonia | 2024 |
| Noise of Istanbul New Media Festival | Istanbul / Turkey | 2024 |
| Bilgi University New Music Festival | Istanbul / Turkey | 2023 |
| Cranelab Acousmateauque Multicanal Listening Room | Millery / France | 2023 |
| ATMOSPHERES Multisensorial research in Istanbul | Istanbul / Turkey | 2023 |
| ACMC Australasian Computer Music Conference | Sydney / Australia | 2023 |
| EM-visia 2023 Concert | Kyiv / Ukraine | 2023 |
| International Music Day Spatial Sound Installation | Talinn / Estonia | 2023 |
| PAYSAGES COMPOSÉS Festival | Grenoble / France | 2023 |
| UdK Exhibition The Institute for Art in Context | Berlin / Germany | 2023 |
| NYCEMF NYC Electroacoustic Music Festival | New York / USA | 2023 |
| SONIFIED Symposium | Istanbul / Turkey | 2022 |
| XNPM22 Xenakis Networked Performance Marathon | Athens / Greece | 2022 |
| digitIZMir Digital Music Festival | Izmir / Turkey | 2022 |
| ICMC The International Computer Music Conference | Limerick / Ireland | 2022 |
| NIME New Interfaces for Musical Expression | Auckland / New Zealand | 2022 |
| SMC The Sound and Music Computing Conference | Saint-Etienne / France | 2022 |
| Earth Day Art Model Telematic Festival | Indianapolis / USA | 2022 |
| TIEMF Tehran International Electronic Music Festival | Tehran / Iran | 2022 |
| HKCR Hong Kong Community Radio | Hong Kong / China | 2022 |
| Journal of Space and Culture Conference | Ingolstadt / Germany | 2022 |
| ICLC International Conference on Live Coding | Valdivia / Chile | 2021 |
| ISMIR Conference | Online | 2021 |
| Ecos Urbanos Festival of Sound Art and Transmedia | San Francisco / USA | 2021 |
| SBCM 18th Brazilian Symposium on Computer Music | Online / Brazil | 2021 |
| SIIDS Sound, Image and Interaction Design Symposium | Funchal / Portugal | 2020 |
| Network Music Festival | Birmingham / UK | 2020 |

Talks / Presentations

| Type | Event | Location | Year |
|--------------|--|------------------------|------|
| Presentation | ITU MIAM Colloquium | Istanbul / Turkey | 2024 |
| Workshop | Noise of Istanbul Festival | Istanbul / Turkey | 2024 |
| Demo | IS ² Int. Symp. on the Internet of Sounds | Pisa / Italy | 2023 |
| Presentation | SONIFIED Symposium | Istanbul / Turkey | 2022 |
| Talk | NIME New Interfaces for Musical Expression | Auckland / New Zealand | 2022 |
| Presentation | Xenakis 22: Centenary International Symposium | Athens / Greece | 2022 |
| Presentation | ICLC International Conference on Live Coding | Valdivia / Chile | 2021 |
| Presentation | Hybrid Live Coding Interfaces | Online | 2021 |
| Talk | Bilgi University Music Seminars | Istanbul / Turkey | 2021 |
| Talk | Mimar Sinan University | Istanbul / Turkey | 2020 |

Software

- **Remote OSC** A server/client utility enables computer musicians to collaborate real-time remotely. For more information please see Wilson et al. (2022), Section 5 <https://github.com/serkansevilgen/remote-osc>

Publications

- Stein, R.S., Toda, S., Özbakir, A. D., Sevilgen, V., Gonzalez-Huizar, H., Lotto, G., Sevilgen, S. (2023) **Interactions, stress changes, mysteries, and partial forecasts of the 2023 Kahramanmaraş, Türkiye, earthquakes**, Temblor, <http://doi.org/10.32858/temblor.299>
- Toda, S., Stein, R. S., Özbakir, A. D., Gonzalez-Huizar, H., Sevilgen, V., Lotto, G., and Sevilgen, S., (2023) **Stress change calculations provide clues to aftershocks in 2023 Türkiye earthquakes**, Temblor, <http://doi.org/10.32858/temblor.295>
- Sevilgen, Serkan (2022). **Xenakis Matrix to Image Matrix: A Data Sonification Method Inspired by Xenakis's Achorripsis**. Proceedings of the XENAKIS 22: Centenary International Symposium. [Full-text](#)
- Wilson, Scott, Vasilakos, Konstantinos, & Sevilgen, Serkan. (2022). **Live Coding in the Time of COVID**. Proceedings of the International Conference on Live Coding. <https://doi.org/10.5281/ZENODO.5885651> [Full-text](#)

Peer-reviews

| Type | Event | Location | Year |
|---------------|--|---------------------|------|
| Paper & Music | NIME - New Interfaces for Musical Expression | Utrecht/Netherlands | 2024 |
| Paper | ICMC - The International Computer Music Conference | Shenzhen/China | 2023 |

Professional Development

| Event | Year |
|--|------|
| Introduction to Computer Music Course (Roger Dannenberg) | 2022 |
| Acoustic, Electroacoustic and Soundscape Course (Barry Truax) | 2021 |
| Darmstadt Composition Summer Course (Brian Ferneyough, Mark Andre, ... Raphaël Cendo, Sarah Nemtsov) | 2021 |
| Exploring Resonance and Feedback Workshop Series (John Driscoll, Phil Edelstein) | 2021 |
| The 5th International Csound Conference | 2019 |
| Vector Synthesis with Pure Data Workshop (Derek Holzer) | 2019 |

Certifications

| Title | Institution | Year |
|---|-----------------------------|-------------|
| IBM Blockchain Foundation for Developers | IBM | 2018 |
| Introduction to Data Science | University of Washington | 2014 |
| 15.071x: The Analytics Edge | MIT | 2014 |
| Computing for Data Analysis | The Johns Hopkins Universit | 2014 |
| MongoDB for DBAs | MongoDB, Inc | 2014 |
| 6.00x: Introduction to Computer Science and Programming | MIT | 2013 |
| Crafting Quality Code | University of Toronto | 2013 |
| MongoDB for Developers | MongoDB, Inc | 2013 |

Press Coverage

- Short documentary on Serkan Sevilgen's musical works was aired at TRT2 (Turkish State Television's Culture/Art Channel) (In Turkish) <https://www.youtube.com/watch?v=8-8Jh861AUck>
- The performance of Serkan Sevilgen and Fulya Ucanok at Network Music Festival (Birmingham, 2020) was reviewed on Manifold website (In Turkish) <https://manifold.press/the-curtain-and-beyond>