

Professor William Seaman, Ph.D.

Computational Media, Arts and Cultures;

Co-director Emergence Lab

Professor, Department of Art, Art History & Visual Studies; and Music; Duke University

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- 1999 Ph.D. — CAiiA, Centre for Advanced Inquiry in the Interactive Arts, University of Wales, Newport, Wales; Dissertation Title: Recombinant Poetics: Emergent Meaning as Examined and Explored Within a Specific Generative Virtual Environment
- 1985 Master of Science, Visual Studies
Massachusetts Institute of Technology, Cambridge, Massachusetts

Biosketch:

Dr. Seaman is a media artist and a computational media researcher. He is pioneer in the field of interactive media. In particular, his PhD (1999) explored emergent meaning production in a specific generative virtual environment. This research focused on new forms of highly complex interactive generative computation and related articulated visualization. He began collaborating from the mid 1980s with media computer scientists / programmers, articulating new experimental forms of interactive media production. He has collaborated on a number of Art/Science publications and projects. In 2021 Seaman was awarded a lifetime achievement award from ACM SIGGRAPH for his pioneering work in “Recombinant Poetics / Recombinant Informatics / Neosentience.”

TEACHING

2008-Present Professor (Tenured), Art, Art History, & Visual Studies, Duke University

2002-08 Professor, Founding Chair, Digital+Media Department and Graduate Program Director, RISD, Providence, R.I.,

PROFESSIONAL ACTIVITIES

2020- Book Review Editor for Cybernetics and Human Knowing, Journal

Graduate Program Director, Computational Media, Arts and Cultures (CMAC), Duke University

2018 Towards a Dynamic Heterarchical Ecology of Conversations (invited talk by von Foerster Society, Vienna) was published in the Journal Cybernetics and Human Knowing. Vol. 25 (2018), no. 1, pp. 91–108

2015-24 Co-director, The Emergence Lab, Media Arts + Sciences, Duke University

2016 At the Interface — Multimodal Sensing and Intelligent Learning Systems —The Dynamic Transformation of the Cityscape, and Its Ongoing Study, Digital Cities in Between History and Archaeology, Edited by Maurizio Forte and Helen Muteira

MAJOR WORKS

2024 Open World Recombinant Informatics, Presented at UNC-Duke Critical Games Symposium, Chapel Hill NC

Composing Systems for Advancing Advancing, Enacting Cybernetics Online Journal

Neosentience Production and a Set of Conversations With ChatGPT Exploring Speculative Post_Apocalyptic Questions, Book Chapter in Post Apocalyptic Computing, Edited by Andrew Adamatzky

Duet CD - Seaman with Tomo Date, Quiet Details

2023 Invited Keynote – ICADE - With the theme of “The Emerging Roles”, the 2023 Tsinghua International Conference on Art & Design Education. The conference aims to chart the shifting contours of art and design education in the AI era. Beijing, China

Published the book with World Scientific – Chaos, Information and The Future of Physics / The Seaman Rössler Dialogues, with Information Annotations by Burgin and Seaman

Presented a major Print Retrospective – Selections from the Archive, Rubenstein Art Center, produced the Catalog with a graphic designer; with free download for students + a physical vesion from Lulu.

Published a Paper with Mark Burgin (first Author) in Cybernetics and Human Knowing Journal Vol. 30 (2023) no. 1-2 pp. 101-131 – In a Search for Deeper Meaning: Navigating a Circle of Sense and Nonsense and In Turn Articulating Logical Varieties as Knowledge Illuminators.

Published a Paper with Mark Burgin (first Author) in Cybernetics and Human Knowing Journal Vol. 30 (2023) no. 1-2 pp. 101-131 – In a Search for Deeper Meaning: Navigating a Circle of Sense and Nonsense and In Turn Articulating Logical Varieties as Knowledge Illuminators.

Centerbook by Elizabeth Goldring and Ellen Sebring, Respondant, Book Launch – Held at the Goethe Institute, Boston

MIT – ACT, Art Technology and Culture, Roundtable, Research Salon – Invited participant – Emergent Futures, Beyond The Centerbook

Music– Released the Following Albums (See Bandcamp site for detail - <https://billseaman.bandcamp.com>):

The Long Sky, Michael Grigoni and Bill Seaman, Longform Editions

The Clear Distance, Bill Seaman with Stephen Vitiello, Room 40, CD

The World Was Turning Before, Bill Seaman, Stephen Spera, and Tim Diagram, Laaps – Vinyl and CD

Invited to be included on the award-winning album – Tribute To Ryuichi Sakamoto “Micro Ambient Music”, International, Digital Version release 2023, Physical release will be 2024

Formed a new Research Team for Neosentience research. Emergence Lab

2022 The Engine of Many Senses, in the Group Show - Computational Poetics, Beall Center curated by Higgins/Familian, Irvine, CA

In the Circle of Sense and Nonsense: Through a Mathematical Model of Meaning, Mark Burgin / Bill Seaman, Leonardo, MIT Press, Volume 55, Number 1, 2022

Book - From the Architecture of Ideas: The Life and Work of Ranulph Glanville – Cybernetician, Edited by Seaman, Imprint Academic, UK

Encyclopedia Chapter, Interactive Art, Bloomsbury (forthcoming)

Chapter - The Insight Engine 2.0: the Body and Biomimetic Systems as Intelligent Environments, Professor Bill Seaman, PhD, with Quran Karriem, Dev Seth, Hojung Ashley Kwon, and John Herr. in Intelligent Environments, 2nd Edition - Advanced Systems for a Healthy Planet, . Peter Droege, Editor, Elsevier Press, forthcoming

Overview: Neosentience, Biomimetics, and Insight Engine 2.0 Presented at the Conference on Theoretical and Foundational Problems in Information Studies

Neosentience: Research Areas and Insight Engine 2.0 Foci, Presented at the Conference on Theoretical and Foundational Problems in Information Studies

2021 ADA - Archive of Digital Arts, Featured Artist, Seaman Archive and Interview, Danube University Krems, Austria

Special Session Organizer for Theoretical and Foundational Problems (TFP) in Information Studies, conference: Neosentience, Biomimetics and the Insight Engine 2.0

2018 The Oper& with John Supko, Experimental Generative Opera, Mary Duke Biddle Foundation & the Office of the Vice Provost for the Arts, Duke

2022 Overview: Neosentience, Biomimetics, and Insight Engine 2.0. Proceedings 2022, 81, 89. <https://doi.org/10.3390/proceedings2022081089>

Neosentience: Research Areas and Insight Engine 2.0 Foci. Proceedings 2022, 81, 14. <https://doi.org/10.3390/proceedings2022081014>

From The Architecture of Ideas – The Life and Work of Ranulph Glanville, Cybernetician, Imprint Academic, UK (book)

2020 Neosentience, long paper for Sentience - ISEA Online Proceedings 2020

Design Cybernetics, Book Review for Cybernetics and Human Knowing

Machinic Vision in the Neosentient is Potentially Associated With via Multimodal Sensing, in Ways of Machine Seeing, a special edition of AI & Society journal by Springer

At the Interface - Multimodal Sensing and Intelligent Learning Systems -The Dynamic Transformation of the Cityscape, and Its Ongoing Study— In Digital Cities, Between History and Archaeology, Edited by Maurizio Forte and Helena Murteira, Oxford University Press