## *CURRICULUM VITAE*

*Erik H Zepka is a Danish-Canadian researcher specializing in biology, science communication, open access, and interdisciplinary projects. He has lab experience in a variety of fields including vaccine design, chemical analysis, sensor devices, pathological diagnosis, genetic engineering and environmental health. After a degree in Philosophy and Science which focussed on biological research, concepts and their public communication, he worked for a couple of years in medical labs and centres throughout Greater Vancouver. Through the 2010s he conceived and cofounded the Open Science Network, a citizen biology lab dedicated to local and international education and research. Through XOX Labs and other ventures, this has grown in a consistently international manner, creating and running research programs from New York to Shanghai. He has presented and published papers at UVic, Aarhus University, MIT and University College Cork - taught and lectured at NJIT, UBC, NYU and the Simon Fraser University Institute - and helped design and run laboratories at ShanghaiTech, Guangzhou Academy, MakerLabs and Tongji University. His chief interests are to learn and engage in medical and scientific questions while making them accessible and understandable to the public.*

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## SELECTED PUBLICATIONS, COURSES, RESEARCH AND LECTURES

**2024:**

* *Laboratories of Cognition* – Cybernetics 60th Anniversary, Washington DC, USA
* *Clustering and Decisions: An Archeology of Computational Creation* – ELO Orlando, Florida, USA
* *Access Control Solutions in Electronic Health Record Systems* – Informatics in Medicine Unlocked, United Kingdom
*  *Scientific Models, Paradigms and Systems of Ecology* –  HJEAS, Budapest, Hungary
* A*n Extended, Distributed Model for Consciousness* – Consciouness Reframed, Detao School, Shanghai, China

**2023:**

* *Rationalism's Role in Scientific Method* – School of Materialist Research, Skopje, Macedonia
* *Tools of Technical Culture* - AELAIWC 2023, Calabar
* *Historical Symbology and Progress in Science* – Venice, Italy
* *Constructive and Realist Modelling* – TTT, Malta
* *Creative Scientific Algorithms* – Electronic Unconference, UK/USA/Global

**2022:**

* *Scale, Energy and the Empire of Food* – ISEA Barcelona, Spain
* *Global Distribution of COVID* – Open Science Network, Vancouver Canada
* *Immunity, Fast and Slow* – XOX Labs, Copenhagen, Denmark
* *Memento Casu* – Computer Model, ELO 2021, Aarhus Denmark
* *Technobiotics of Others* – Paper and Presentation Xcoax, Graz Austria


**2021:**

* *Creativity and Environmental Models* – Practical Knowledge Panel, Yekaterinberg Russia
* *Data Science, Food and Limnology* – Stattwerkstadt for Ars Electronica, Linz Austria
* *Number Architecture* – RAW, Myrmala, Helsinki Finland
* *Bioecologies* – ISEA2021 Montreal, Canada
* *After Shot* – Curation, Taipei Festival, Taiwan


**2020:**

* *Models to Imagine What It's Like to Be Human* – BRAC University, Bangladesh
* *Circular Laboratories* - Centre for Excellence in Basic Sciences, Mumbai India
* *Alien Ecologies* – Bioriidl, Mumbai India
* *The Ethics of Epistemological Materialism* – Taboo Transgression Transcendence, Vienna Austria
* *Biocapitalism and Consuming Inaction* – Fish Center, Taipei Taiwan


**2019:**

* *Molecular Biology Lab Design and Implementation* – ShanghaiTech University
* *A Treatise on Vegetable Logic* – University of College Cork Ireland
* *From Weird Avatars to the Investigation of Whatever* – Guangzhou Academy, Guangzhou `` China
* *Rational Games for Biological Systems* – ISEA 2019, Gwanju, Korea
* *Pluralizing Science Practice* -  Tentacles Space, Bangkok Thailand


**2018:**

* *Public Science in a Globalized World* – Engineers.SG Forum, Singapore
* *Immunological Problems of Robot Globalization* – FAN4, Ho Chi Minh Vietnam
* *Module Design for Multileveled Education* – Biobuild Lab, Yangpu China
* *Immune Models* – Scientific Presentation, Bioclub Japan
* *Science Fictions for the Robot Class* – Round Table and Talk Series, Maker Labs , Vancouver Canada