

## **Tyler Lance Jaynes**

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#### Awards & Honors

#### Award of Oral Presentation

## 18<sup>th</sup> Asian Bioethics Conference, Seoul, KR; October 27<sup>th</sup>, 2017

• Awarded by the conference organizers for "On Nanotechnology: Overcoming the Limitations of fMRI Research."

#### Certificate of Contribution

## 2019 International Mountain Day, Orem, UT; December 11th, 2019

Awarded by the Food & Agriculture Organization of the United Nations to recognize contributions to the 68<sup>th</sup>
United Nations Civil Society Conference in Salt Lake City, UT, US

## **Emerging Tech Grant**

## IEEE Computer Society, Piscataway, NJ, US; April 5<sup>th</sup>, 2023

• Minor award to establish a quantum technologies workshop (to be scheduled)

## **Bursary Award**

## The Royal Society Neural Interfaces Summit, London, UK; August 11, 2023

 Awarded by the Royal Society to engage in a two-day summit (held September 12<sup>th</sup> and 13<sup>th</sup>, 2023) focused on current innovations in neural interface development and application, and exploring the regulation required for these artifacts

#### **Other Professional Activities**

- Peer-reviewer (i.e., AI & Society, Journal of Bioethical Inquiry).
- Collaborator for a 2020 Japan Society for the Promotion of Science grant project.
- Institute of Electrical & Electronics Engineers member (2019 present).
- Sole student organizer of the 11th G. Lawrence Anderson Undergraduate Philosophy Conference, hosted by Utah Valley University April 13, 2018.
- Steering Committee Member, "Innovation Frontiers 2021" joint conference between the Society for HealthCare Innovation and the University of California Santa Cruz, Crown College
- Steering Committee Member, "Innovation Frontiers 2022" joint conference between the Society for HealthCare Innovation and the University of California Santa Cruz, Crown College
- Conference Organizing Committee Member, 2024 IEEE Nanomaterials and Devices Conference (NMDC), Salt Lake City, UT, US
- Project contributor, IEEE SA Quantum Standards Roadmap (under development).

#### **Volunteer Positions**

#### Secretary

IEEE P2863<sup>TM</sup> – Recommended Practice for Organizational Governance of Artificial Intelligence – Standard Development Group, Virtual; August 2020 – Present

- Pro-bono / unpaid position; approximately 10 hours weekly.
- Coordinate meetings for Working Group and Subgroup activities.
- Facilitate document management for Recommended Practice draft contributions.
- Draft meeting minutes and agendas.
- Maintain participant roster and voting membership.
- Technically contribute to Working Group and Subgroup meetings, and development of Recommended Practice draft.

#### Chair

## IEEE Nanotechnology Council Standards Committee, Virtual; November 2020 - Present

- Pro-bono / unpaid position; approximately 10 hours weekly.
- Serve as a non-voting member of the IEEE Nanotechnology Council Administrative Committee, reporting on Standards Committee activities.
- Coordinate and lead meetings to discuss new opportunities for industrial standard development.
- Help to ensure that IEEE SA participation policies are being followed during Committee meetings.
- Conduct research to verify state of the industry, including through conference participation.
- Report on Committee activities to IEC/TC 113 Nanotechnology for electrotechnical products and systems
- Coordinate with project submitters to present project authorization requests to IEEE SA.
- Process industrial standard renewals or withdrawls.

#### Vice-Chair

# IEEE P7030<sup>TM</sup> – Recommended Practice for Ethical Assessment of Extended Reality (XR) Technologies, Virtual; February 2022 – Present

- Pro-bono / unpaid position; approximately 5 hours weekly.
- Lead Working Group activities in lieu of Chair when not present or recusing themselves to engage in technical discussions.
- Technically contribute to Working Group meetings and development of Recommended Practice draft.
- Help to ensure that IEEE SA participation policies are being followed during Working Group meetings.

#### Education

#### Associate of Science, with Honors, University Studies

## Utah Valley University, University College, Orem, UT, US; Graduated May 2<sup>nd</sup>, 2014

- Academic emphases in biotechnology, general medicine, and psychology
- Attained alongside high school diploma from the Utah County Academic of Sciences in Orem, UT, US, graduated with high honors

## Bachelor of Science, Philosophy; Minor in Ethics

## Utah Valley University, College of Humanities and Social Sciences, Orem, UT, US; Graduated May 4th, 2018

- Academic emphases in bioethics, medical ethics, and technology ethics
- Completed on-campus internship in the UVU Center for the Study of Ethics

Master of Science, Bioethics

Alden March Bioethics Institute at Albany Medical College, Albany, NY, US; Not completed

- Academic emphases in medical law, neuroethics, and medical technology management
- Online-only program

Master of Legal Studies

University of Utah, S.J. Quinney College of Law, Salt Lake City, UT, US; Anticipated August 20th, 2024

#### **Publications**

Legal Personhood for Artificial Intelligence: Citizenship as the Exception to the Rule

• AI & Society 35, no. 2 (2020): 343-354. https://doi.org/10.1007/s00146-019-00897-9

From Specialized to Hyper-Specialized Labour: Future Labor Markets as Helmed by Advanced Computer Intelligence

• In *Loneliness and the Crisis of Work*, edited by Pritika Nehra. Newcastle upon Tyne, UK: Cambridge Scholars Publishing (2021), pp. 159-175

The Question of Algorithmic Personhood and Being (Or: On the Tenuous Nature of Human Status and Humanity Tests in Virtual Spaces—Why All Souls are 'Necessarily' Equal When Considered as Energy)

• J4, no. 3 (2021): 452-475. https://doi.org/10.3390/j4030035

On Human Genome Manipulation and Homo technicus: The Legal Treatment of Non-Natural Human Subjects

• AI and Ethics 1, no. 3 (2021): 331-345. https://doi.org/10.1007/s43681-021-00044-5

The Legal Ambiguity of Advanced Assistive Bionic Prosthetics: Where to Define the Limits of 'Enhanced Persons' in Medical Treatment

• Clinical Ethics 16, no. 3 (2021): 171-182. https://doi.org/10.1177/1477750921994277

Citizenship as the Exception to the Rule: An Addendum

• AI & Society 36, no. 3 (2021): 911-930. https://doi.org/10.1007/s00146-020-01105-9

"I Am Not Your Robot:" The Metaphysical Challenge of Humanity's AIS Ownership

• AI & Society 37, no. 4 (2022): 1689 - 1702. https://doi.org/10.1007/s00146-021-01266-1

"Compoundless Anaesthesia," Controlled Administration, and Post-Operative Recovery Acceleration: Musings on Theoretical Nanomedicine Applications

Journal of Clinical Medicine 11, no. 1 (2022): 256 (16 pg.). https://doi.org/10.3390/jcm11010256

Problems of Using Autonomous Military AI Against the Background of Russia's Military Aggression Against Ukraine

- Baltic Journal of Legal and Social Sciences (Juridisko un Sociālo Zinātņu Baltijas Žurnāls) 2022, no. 4 (2023): 131-145. https://doi.org/10.30525/2592-8813-2022-4-16
- Co-authors: Oleksii Kostenko, Ph.D.; Dmytro Zhuravlov, J.D.; Oleksii Dniprov, J.D.; and Yana Usenko

Socially Good AI Contributions for the Implementation of Sustainable Development in Mountain Communities Through an Inclusive Student Engaged Learning Model

- In Socially Good AI: Artificial Intelligence for the Sustainable Development Goals, eds. Francesca Mazzi and Luciano Floridi. Cham, CH: Springer Nature Switzerland (2023), pp. 269-289. https://doi.org/10.1007/978-3-031-21147-8\_15
- Co-authors: Baktybek Abdrisaev, B.Sc., Ph.D.; Linda MacDonald Glenn, J.D., LL.M

Practical Extended Reality Technologies: Global Voices on Deployment and Regulation

- Forthcoming edited collection from CRC Press (Taylor & Francis Group)
- Co-editors: Lauren O. Ruffin, B.A., J.D.; Gregory S. Yanke, J.D., M.Sc., M.L.A., LL.M.

#### **Presentations**

Reshaping fMRI Research: How Anime Can be Used to Stimulate Medical Advancement UNESCO Chair in Bioethics (Haifa) 12<sup>th</sup> World Conference on Bioethics, Medical Ethics & Health Law, Limassol, CY; March 23<sup>rd</sup>, 2017

Medicating the End of Human Life: The Complications of End-of-Life Care, Euthanasia, and Individual Will Utah Valley University Contours of Knowledge Conference, Orem, UT, US; March 28<sup>th</sup>, 2017

• Co-presented with Melvin Davila Martinez

On Nanotechnology: Overcoming the Limitations of fMRI Research Mind & Brain Conference, Flint, MI, US; September 15<sup>th</sup>, 2017 18<sup>th</sup> Asian Bioethics Conference, Seoul, KR; October 25<sup>th</sup>, 2017

Developing Anticipatory Bioethics Through Media Influences

19<sup>th</sup> International Conference on Ethics Across the Curriculum, Grand Rapids, MI, US; October 5<sup>th</sup>, 2017 (oral) 18<sup>th</sup> Asian Bioethics Conference, Seoul, KR; October 25<sup>th</sup>, 2017 (poster)

Entertainment Media and Bioethics: An Anticipatory Dialogue New Media: Interactions and Translations Conference, El Jadida, MA; November 23<sup>rd</sup>, 2017

Generating Precedence for Absolutely Universal Rights: Energy as a Foundation for Protections 2018 Utah Valley University Student Ethics Symposium, Orem, UT, US; April 17<sup>th</sup>, 2018

Energy as a Universal Right: Applications for Artificial & Biological Beings
Brain-based & Artificial Intelligence: Socio-ethical Conversations in Computing & Neurotechnology Workshop,
Chicago, IL, US; May 11<sup>th</sup>, 2018

Current Aspects of the Rights for Artificial Intelligence Debate: Perspectives from the 1990s to the Present 15<sup>th</sup> National Congress on Bioethics, Lisbon, PT; May 25<sup>th</sup>, 2018

 Presented with sponsorship from the conference organizers at the request of the organizing President, Dr. Rui Nunes

Science Fiction Turned Fact (Again): Speculative Bioethical Discourse as a Necessary Tool for Future Engagements

13<sup>th</sup> International Public Health & Bioethics Ambassador Conference, Virtual; January 6<sup>th</sup>, 2021

Beyond the IRB: TERBo<sup>TM</sup> Powered Guidance

30<sup>th</sup> Annual Association for Practical and Professional Ethics Conference, Virtual; February 25<sup>th</sup> – 28<sup>th</sup>, 2021

- "Flash" presentation; not scheduled concurrently in program
- Co-presented with W. Parker Nolen, M.B.A., C.I.P., D.P.S.; and Linda MacDonald Glenn, J.D., LL.M

The Question of Algorithmic Personhood and Being: Measuring the Digital World to Secure Future Inalienable Rights

2<sup>nd</sup> Artificial Intelligence for Information Accessibility (AI4IA) Conference, Virtual; September 28<sup>th</sup>, 2021

Smart Cities Through the Lens of Human Rights: Technological and Ethical Dilemmas 2021 IEEE International Symposium on Technology and Society (ISTAS21), Virtual; October 31<sup>st</sup>, 2021

• Panel comprised of: Bryant Walker Smith, B.Sc., J.D., LL.M. (keynote presenter); Cordel Green, B.A., M.B.A., LL.B., LL.M. (keynote presenter); myself (keynote presenter); Lubna Dajani, B.B.A. (keynote presenter); Angelo Ferraro, B.S.C.E., B.S.E.E., M.Eng.E.E. (panelist); Larissa Paredes Muse, B.Sc., M.U.E. (panelist); Rosaldo J.F. Rossetti, M.C.S., Ph.D. (panelist); and Sara M.C.M.O. Paiva, Ph.D. (panelist)

Birds of a Feather Presentation – Quantum Standards 2022 IEEE International Conference on Quantum Computing and Engineering – QCE22, Broomfield, CO, US; September 19, 2022

• Co-presented with Terrill Frantz, M.Sc., Ph.D.

Bio-Virtual Ethics for Accelerating Globalization

Langford, B.A., B.Sc., Ph.D. (panelist)

19<sup>th</sup> International Scientific Conference of the International Society for Clinical Bioethics, Okayama, JP; November 11, 2022\

Panel – Quantum Standards: Progress, Plans, Challenges 2023 IEEE International Conference on Quantum Computing and Engineering – QCE23, Bellevue, WA, US;

September 21, 2023
Panel comprised of: Srikanth Chandrasekaran, B.Sc. (co-moderator); Bruce Kraemer, B.Sc., M.Sc. (co-moderator); Thomas (Tom) Lubinski (panelist); Clare Allocca, B.Sc., M.Sc. (panelist); Catherine Lefebvre, B.Sc., M.Sc., Ph.D. (panelist); Blaise Vignon, M.Sc., M.B.A. (panelist); myself (panelist); and Nathan