Kelvin Chen

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https://k9chen.github.io

Research Goals: My research concerns the identification of prospective biomarkers for neurological diseases and their underpinning neuropathological mechanisms at the molecular level. I explore the translatability of such findings for the novel development of ethical clinical applications to improve patient care.

Areas of Interest: Translational neuroscience, nervous system disorders, neural stem cell biology, neuroimaging, applied neuroethics

Education

2022 – 2026 **University of Virginia**, Charlottesville, VA.
B.A. Neuroscience & Cognitive Science

2020 – 2022 **New Horizons Governor's School for Science & Technology**, Hampton, VA.
Dual Enrollment, Biological Sciences

2018 – 2022 **Woodside High School**, Newport News, VA.
Advanced Studies Diploam

Research Experience

Summer 2023 **Barrow Neurological Institute**, Phoenix, AZ.
Research Intern, Dept. of Translational Neuroscience, Advisor: Richard Dortch

2022 – 2023 **UVA Schools of Medicine**, Charlottesville, VA.
Undergraduate Researcher, Dept. of Pharmacology, Advisor: Julius Zhu

2021 – 2022 **Hampton University**, Hampton, VA.
Research Intern, Dept of Chemistry & Biochemistry, Advisor: Peter Njoki

Publications

Editorials

[4] Chen, K., *On the Psychological Disembodiment of Autonomy and Agency in Patients with Brain-Computer Interface Implants*, Grounds: The Virginia Journal of Bioethics, 2023 [HTML].

[3] Chen, K., *Moral Status in Cerebral Organoids, Gastruloids, and Chimeras*, Grounds: The Virginia Journal of Bioethics, 2023 [HTML].

[2] Chen, K., *The Inadvertent Consequences of Scanning the Human Brain*, Grounds: The Virginia Journal of Bioethics, 2023 [HTML].

[1] Chen, K., *Towards a Brave New World: The Huxleyan Reality of Using Pharmacological Neuroenhancement*, Grounds: The Virginia Journal of Bioethics, 2023 [HTML].

Presentations

Poster

[1] Chen, K., Dortch, R.D., Sadrabadi, M.S, *A Pathologically Realistic Spherical Mean Technique-Based Computational Model for Assaying Axonal Volume Fraction in Injured Peripheral Nerves*, Barrow Neurological Institute REU Symposium, Phoenix, AZ, 2023 [PDF].

Teaching Experience

Fall 2023 Teaching Assistant, CHEM 1811: Principles of Chemical Structure Lab, UVA.

Awards & Grants

2023 – 2026 Echols Scholarship, UVA.

2022 – 2026 University Achievement Award Scholarship, UVA.

2022 Distinguished Research Mentorship Award, NHGSST.

2022 Valedictorian, WHS.

Services & Outreach

2023 – Pres. Editor, Grounds: The Virginia Journal of Bioethics.

2023 – Pres. Senior Translator, The Cavalier Daily.

2022 – Pres. Copy Editor, The Oculus: The Virginia Journal of Undergraduate Research.

2022 – Pres. Investigator, University Judiciary Committee.

2022 – Pres. Senior Associate, The Blosson Together Association.

2022 – Pres. Medical Services Volunteer, Madison House.

Affiliations

2022 – Pres. Undergraduate Research Network.

Skills

Programming MATLAB, R

Languages English, Mandarin