Elizabeth Kline, PhD

Berlin, CT
https://elizabethmkline.owlstown.net
kline@uconn.edu
kline.elizabethm@gmail.com

EDUCATION

Emory University *2013-2019*

- PhD in neuroscience, mentored by Dr. Malú Tansey
- Dissertation: Innate and Adaptive Immune System Crosstalk in Parkinson's Disease

University of Pittsburgh *2009 - 2013*

- BS in Neuroscience with minor in Chemistry; BA in History and Philosophy of Science

TEACHING EXPERIENCE

Assistant Professor in Residence, University of Connecticut
August 2019-Present

- Department of Molecular and Cell Biology
- Redesigned high-enrollment Principles of Biology I (BIOL 1107) course to semi-flipped format, emphasizing active learning and more equitable assessment
- Creator of and instructor for writing-intensive courses for Molecular and Cell Biology majors - Human Disease and the Development of Therapeutic Agents (MCB 3022W) and Biology in Contemporary Society (MCB 3841W)
- Co-instructor for experiential learning courses Introduction to Clinical Research (MCB 3100) and Clinical Research Laboratory (MCB 3189)
- Coordinator of undergraduate laboratory learning assistants (MCB 3899)

On Recent Discoveries by Emory Researchers (ORDER) Teacher-Scholar
June 2017 – May 2018

- Created and co-taught writing-intensive interdisciplinary studies course What Does it Mean to be Human (IDS 220)

Lab Course Instructor, Emory University
August 2017 – May 2018

- Taught weekly undergraduate Foundations of Modern Biology Lab I and II (BIO 141/2L)

Teaching Assistant, Emory University
January 2017 – May 2017

- Responsible for leading weekly review sessions, meeting with students one-on-one, grading, and course website management in Introduction to Neurobiology (NBB 301) – undergraduate course with flipped classroom design

Research Perspective Classroom Visits, Emory University
2014 - 2018

- Discussed path to graduate school and thesis research with undergraduates considering Neuroscience and Behavioral Biology major in Explore Neuroscience and Behavioral Biology Research (NBB 299)

Teaching Assistant, Emory University
August 2014 – December 2014

- Responsible for leading pre-exam review sessions, grading, and course website management for Systems Neuroanatomy (IBS 526) - graduate course

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Teaching Assistant, University of Pittsburgh
January 2011 – April 2014

- BIOSC 1690 Experience in Undergraduate Teaching – undergraduate biology laboratory course
- Assisted with designing and executing lab protocols, coordinated grading

SERVICE

MCB Department Assessment Subcommittee	*May 2022-Present; Chair 2023-Present*
MCB Courses and Curriculum Committee	*August 2022-Present*
BIOL 1000s Advisory Committee	*January 2020-Present*
MCB Self-Study Committee	*September 2023-Present*
MCB Department Graduate Student Retreat Committee	*June 2021-May 2024*
MCB Mentoring Committee	*August 2022-May 2023*
MCB Policies and Procedures Committee	*August 2022-May 2023*
MCB Promotion and Reappointment Committee	*May 2022-Septmeber 2022*
MCB Teaching Assistant Assignment Committee	*June 2021-May 2022*
MCB Department Head Search Committee	*March 2022-April 2022*
MCB Assistant Professor in Residence Search Committee	*April 2021-July 2021*
MCB Instructor in Residence Search Committee, Chair	*June 2020-July 2020*

RESEARCH MENTORSHIP EXPERIENCE

Literature Review Undergraduate Thesis Adviser, University of Connecticut – 5
Honors Undergraduate Capstone Committee Member, University of Connecticut – 11
Undergraduate Laboratory Work, Emory University – 4
Graduate Rotation Projects, Emory University

Cheyenne Hurst – Graduate	*August 2018 – November 2018*
Simone Campbell – Graduate	*August 2016 – December 2016*

LEADERSHIP, OUTREACH, AND COMMUNITY ENGAGEMENT

Northeast Under/graduate Research Organization for Neuroscience Annual Conference Organizer
2022-Present

- Select speakers for Data Blitz (short talk) session
- Coordinate talk judges, scoring, and awards

Co-Primary Investigator, Fostering Ideal Regional Student Transitions (FIRST) in Biology
March 2021-June 2022

- Collaborated with UConn faculty from regional and Storrs campuses to design programs that support campus-change students majoring in a biology field

MedicZero
September 2023-Present

- Faculty advisor for undergraduate club training students to lead first aid workshops

CT Mutual Aid: East of the River
June 2020-October 2023

- Organized clothing “free store” for Manchester, CT community
- Stored, inventoried, and distributed hundreds of clothing donations

Elementary School Outreach
2018-2019
- Classroom and Girls S.T.E.M Camp visits to Harbins Elementary, Roberts Elementary, and Mary Lin Elementary
- Introduced students to human brain anatomy using the Atlanta Chapter of the Society for Neuroscience lending library brains

Co-President for Emory Women in Neuroscience (EWIN)
May 2014 – May 2016
- Hosted local and visiting speakers, Wikipedia edit-a-thons, film viewings, conference-readiness workshops, negotiation training, and networking with other women in science organizations at other universities
- Worked with executive committee to raise awareness of the intersection of feminism and science
- Managed budget provided by Graduate Student Council and Student Government Association

Coordinator for Seminar – "Frontiers in Neuroscience"
August 2014 – April 2015
- Elected by classmates to facilitate departmental and inter-university networking by recruiting speakers to present current research and career paths

AWARDS AND PREVIOUS FUNDING SOURCES
- UConn College of Liberal Arts and Sciences Research Funding in Scholarship of Teaching and Learning – Fostering Ideal Regional Student Transitions in Biology, 2021
- Emory University Graduate Division in Biological and Biomedical Sciences Student Career Teaching Award, 2019
- NIGMS Training Grant in Integrative Biology: Neuroscience, September 2014 – August 2015
- First place talk, Division Student Advisory Council Symposium, Emory University, 2018

PUBLICATIONS
- **Kline EM**, Houser MC, Herrick MK, Seibler P, Klein C, West A, Tansey MG. Genetic and Environmental Factors in Parkinson's Disease Converge on Immune Function and Inflammation, Mov Disord. 2021 Jan;36(1):25-36. doi: 10.1002/mds.28411. Epub 2020 Dec 14. PMID: 33314312; PMCID: PMC8285924.
- **Kline EM**, Butkovich LM, Bradner JM, Chang J, Gelbard H, Goodfellow V, Caudle WM, Tansey MG. The second generation mixed-lineage kinase-3 (MLK3) inhibitor CLFB-1134 protects against neurotoxin-induced nigral dopaminergic neuron loss, Exp Neurol. 2019 Aug;318:157-164. doi: 10.1016/j.expneurol.2019.05.002. Epub 2019 May 8. PMID: 31077715; PMCID: PMC6592621.
- Hammond R, Nelson D, **Kline E**, Gibbs RB. Chronic treatment with a GPR30 antagonist impairs acquisition of a spatial learning task in young female rats, Horm Behav. 2012 Sep;62(4):367-74. doi: 10.1016/j.yhbeh.2012.07.004. Epub 2012 Jul 22. PMID: 22828404; PMCID: PMC3477261

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POSTERS AND PRESENTATIONS

- Kalaiarasu S, Nowobilski M-K, **Kline E**, Smith S (2024), Side Effects Following Topical Steroid Usage in Pediatric Atopic Dermatitis, Poster, Pediatric Academic Societies Meeting
- Haight JL, Betz AJ, Shansky RM, Ecevitoglu A, Francone VP, **Kline E**, Rotolo RA, Tanner GR, Yang J-H, Ahern TH (2023), The 36th northeast undergraduate and graduate research organization for neuroscience (NEURON) conference held at Quinnipiac University's Frank H. Netter M.D. School of Medicine in North Haven, CT, Poster, Society for Neuroscience
- Betz AJ, Rotolo R, Tanner G, Ahern T, Haight J, Sanacora G, Francone V, **Kline E**, Yang J-H, Ecevitoglu A (2022), The 35th northeast undergraduate and graduate research organization for neuroscience (NEURON) conference held at Quinnipiac University's Frank H. Netter M.D. School of Medicine in North Haven, CT, Poster, Society for Neuroscience
- **Kline EM**, MacPherson KP, Kannarkat GT, Caudle WM, Tansey MG (2018) Mechanistic investigation of Parkinson's disease risk factors: a common genetic variation in antigen presentation capacity and pesticide exposure, Poster and short talk, Southeastern Neurodegeneration Conference and Keystone: New Frontiers in Neuroinflammation: What Happens When CNS and Periphery Meet?
- **Kline EM**, Carr CP, MacPherson KP, Cintron AF, Murray BC, Kannarkat GT, Caudle WM, Tansey MG (2018) Synergy between common genetic variant in antigen presentation capacity and pyrethroid exposure affects peripheral immunophenotyped and nigrostriatal pathway vulnerability, Poster and short talk, Gordon Conference: Parkinson's Disease
- **Kline EM**, Kannarkat GT, Chang JJ, Boss JM, Tansey MG (2016) The Role of Myeloid MHC-II in α-synuclein-induced Degeneration and Risk for PD, Poster, World Parkinson's Congress
- **Kline EM**, Cook DA, Kannarkat GT, Chang JJ, Lee JK, Boss JM, Tansey MG (2015) The Role of LRRK2 in Inflammaging and Parkinson's Disease, Poster, Society for Neuroscience
- **Kline E**, Balcita-Pedicino J, Dong Y, Sesack SR (2013) Preferential localization of the endocannabinoid synthetic enzyme NAPE-PLD in glutamate axon terminals in the rat nucleus accumbens, Poster, Society for Neuroscience