

Elijah Zorro Ullman<https://www.linkedin.com/in/elijahullman/>

Molecular and Systems Pharmacology PhD Candidate

EDUCATION

Emory University , Atlanta, GA Molecular and Systems Pharmacology Program Advisor: Stephen F. Traynelis <i>Mechanism of Action Underlying Pore-Modifying Allosteric Modulators of the NMDAR</i>	08/19 – 10/24 (Expected)
Colorado State University , Fort Collins, CO <i>B.S., Neuroscience, Molecular and Cellular Concentration</i>	08/15 – 05/19

PRIOR RESEARCH EXPERIENCE

Undergraduate Research Assistant Department of Biomedical Sciences, Colorado State University Advisor: Dr. Gregory C. Amberg <i>Cav1.2-Mediated Modulation of Gonadotroph Signaling</i>	09/17 – 08/19
Summer Undergraduate Research Fellow Department of Biomedical and Pharmaceutical Sciences, University of Montana Advisor: Dr. Kasper B. Hansen <i>Mechanisms of Action Underlying the Negative Allosteric Modulator HU-211</i>	06/17 – 08/17
Undergraduate Research Assistant Department of Biomedical Sciences, Colorado State University Advisor: Frederic J. Hoerndli <i>Mechanisms of AMPA Receptor Transport in C. elegans</i>	01/17 – 06/17
Summer Undergraduate Research Fellow Department of Biomedical and Pharmaceutical Sciences, University of Montana Advisor: Dr. Kasper B. Hansen <i>Subunit Selective NMDA Receptor Allosteric Modulators by TCN-201 on Human Receptor Variants</i>	06/16 – 08/16

AWARDS, FELLOWSHIPS, AND HONORS

Emory University Laney Graduate School <i>Student Leadership Award</i>	10/23
Emory University Molecular and Systems Pharmacology PhD Program <i>Eddy Morgan Award for Leadership and Service</i>	08/23
American Society for Pharmacology and Experimental Therapeutics (ASPET) <i>Washington Fellow</i>	01/23 – 05/23
Emory University Molecular and Systems Pharmacology PhD T32 Training Grant <i>5T32GM008602-24</i>	08/20 – 08/21

COMMITTEES AND LEADERSHIP

ASPET Science Policy Committee <i>Member</i>	07/24 - Present
ASPET Drug Research Policy & Washington Fellow Program Subcommittees <i>Member</i>	10/23 - Present

Emory University Department of Chemistry and Department of Pharmacology and Chemical Biology <i>Founding Chair, Drug Discovery and Delivery Seminar Series</i>	08/24 Atlanta, GA 08/22 – 12/23
Emory University EmoryUnite! <i>Member, Organizing Committee</i>	Atlanta, GA 06/22 – 01/24
Students for Sensible Drug Policy (SSDP) <i>Founding Co-Chair, Science Policy Council</i>	Washington, D.C. 08/20 - Present
Emory University Divisional Student Advisory Council (DSAC) <i>Representative, Molecular and Systems Pharmacology</i>	Atlanta, GA 08/20 – 12/22
Emory University Molecular and Systems Pharmacology PhD Program <i>Member, Molecular and Systems Pharmacology Alumni Symposium Committee</i>	Atlanta, GA 08/20 – 09/20
Colorado State University College of Natural Sciences <i>Founding Director, Learning Community Grant Program</i>	Fort Collins, CO 09/16 – 05/19

LECTURES

1. <u>Cannabinoid Neuropharmacology</u> Lecture for Introduction to Molecular and Systems Pharmacology II	03/23
2. <u>Chemical Carcinogenesis</u> Lecture for Introduction to Molecular and Systems Pharmacology II	03/22
3. <u>Neurotoxicology</u> Lecture for Introduction to Molecular and Systems Pharmacology II	04/21
4. <u>Cannabinoid Neuropharmacology</u> Lecture for Introduction to Molecular and Systems Pharmacology II	03/21
5. <u>Cannabinoid Neuropharmacology</u> Lecture for Introduction to Molecular and Systems Pharmacology II	03/21

REGULATORY FILING ENGAGEMENT

1. DEA Docket No. 1156 a. <i>Hearing against proposed placement of DOI/DOC in Schedule 1 of CSA</i> i. Hearing scheduled for Nov. 2024	01/24
2. DEA Docket No. 824 a. <i>Hearing against proposed placement of DOI/DOC in Schedule 1 of CSA</i> i. DEA withdrew 08/22	05/22

PANELS

1. Science Policy and You: How Pharmacologists Can Become Science Advocates ASPET, St. Louis, MO	05/23
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POSTERS

1. <u>Development and Mechanistic Insights of Novel Positive Allosteric Modulators of the <i>N</i>-Methyl-D-Aspartate Receptor</u> Medicinal Chemistry Gordon Research Conference, New London, NH N.S. Akins, R.G. Fritzemeier, S. Paladugu, E.Z. Ullman , J.P. Allen, R. Sheikh, K. A. Nocilla, J. Maguire, P. Antonoudiou, M.P. D’Erasmus, P.W. Bartsch, S.K. Sharma, S.F. Traynelis, D.C. Liotta	08/23
2. <u>Unconventional Mechanisms of Novel Positive Allosteric Modulators of NMDA Receptors</u> ASPET, St. Louis, MO	05/23

08/24

- E.Z. Ullman**, R.E. Perszyk, J. Zhang, N.S. Akins, R.G. Fritzscheier, S. Paladugu, D.C. Liotta, S.F. Traynelis
3. *Single Channel Characteristics of Conductance and Non-Conductance Modifying Allosteric Modulators of the NMDA Receptor* 03/23
Emory Graduate Division of Biological and Biomedical Sciences Research Symposium, Atlanta, GA
E.Z. Ullman, R.E. Perszyk, J. Zhang, N.S. Akins, R.G. Fritzscheier, S. Paladugu, D.C. Liotta, S.F. Traynelis
 4. *Single Channel Characteristics of Conductance and Non-Conductance Modifying Allosteric Modulators of the NMDA Receptor at the Channel Gate* 01/23
55th Winter Conference on Brain Research, Snowmass, CO
E.Z. Ullman, R.E. Perszyk, J. Zhang, N.S. Akins, R.G. Fritzscheier, S. Paladugu, D.C. Liotta, S.F. Traynelis
 5. *Positive and Negative Modulators of NMDA Receptor Function Act via Linker Regions Connecting Agonist Binding to the Channel Gate* 02/22
54th Winter Conference on Brain Research, Snowmass, CO
E.Z. Ullman, R.G. Fritzscheier, S. Paladugu, D.C. Liotta, S.F. Traynelis
 6. *Subunit-Selective NMDA Receptor Modulation by a Non-Psychoactive Cannabinoid Cannabinoid Analog Dexamabinol (HU-211)* 04/18
Institute of Cannabis Research Conference, Pubelo, CO
E.Z. Ullman, K.B. Hansen
 7. *Subunit-Selective NMDA Receptor Modulation by a Non-Psychoactive Cannabinoid Cannabinoid Analog Dexamabinol (HU-211)* 12/17
Front Range Neuroscience Group, Fort Collins, CO
E.Z. Ullman, K.B. Hansen
 8. *Subunit-Selective NMDA Receptor Modulation by a Non-Psychoactive Cannabinoid Cannabinoid Analog Dexamabinol (HU-211)* 08/17
University of Montana Summer Undergraduate Research Fellows Symposium
E.Z. Ullman, K.B. Hansen
 9. *Negative Allosteric Modulation of NMDA Receptor Activity by TCN-201* 08/16
University of Montana Summer Undergraduate Research Fellows Symposium
E.Z. Ullman, K.B. Hansen

PUBLICATIONS

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1. Policy Brief, *From Bars to Safe Spaces: Exploring Overdose Prevention Centers* 09/23
The Pharmacologist, an ASPET Publication
 2. Press release, *Response to Stipend Increase in 2023-2024 Academic Year* 03/23
EmoryUnite!
 3. Press release announcing union card drive, *Dear Colleagues* 08/22
EmoryUnite!
 4. Policy Brief against: *Schedules of Controlled Substances: Placement of 2,5-dimethoxy- 4-iodoamphetamine (DOI) and 2,5-dimethoxy-4-chloroamphetamine (DOC) in Schedule I* 06/22
Students for Sensible Drug Policy
 5. Fact Sheet for Hill Day, *The EQUAL Act (H.R. 1693, SB.79)* 02/22
Students for Sensible Drug Policy
 6. Action Alert: *the EQUAL ACT* 11/21
Students for Sensible Drug Policy
 7. Action Aert: *NIH and NSF Budget Increase for FY2022* 04/21
Students for Sensible Drug Policy
 8. Blog Post, *50 Years of Failure, It's Time to Rethink the Controlled Substances Act* 12/20
Students for Sensible Drug Policy
 9. Blog Post, *STEM Students Explain How Drug Policy Impacts their Studies* 02/16
Students for Sensible Drug Policy

SCIENTIFIC PUBLICATIONS

Elijah Zorro Ullman

08/24

1. Chou, T.-H., Epstein, M., Fritzscheier, R. G., Akins, N. S., Paladugu, S., **Ullman, E. Z.**, Liotta, D. C., Traynelis, S. F., & Furukawa, H. (2024). Molecular mechanism of ligand gating and opening of NMDA receptor. *Nature*, 1–9. <https://doi.org/10.1038/s41586-024-07742-0> 08/23
2. M.P. D'Erasmio...**E.Z. Ullman**, S.F. Traynelis; Development of a Dihydroquinoline–Pyrazoline GluN2C/2D-Selective Negative Allosteric Modulator of the N-Methyl-d-aspartate Receptor. *ACS Chem. Neurosci*, PMID: 37566734

PROFESSIONAL SOCIETIES

American Society for Pharmacology and Experimental Therapeutics

06/22 – Present