

Clayton Page Aldern

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EDUCATION.....

- University of Oxford, Blavatnik School of Government, Oxford, United Kingdom | Master of Public Policy (MPP) 2014–15
Foci: Climate Change, Security
- University of Oxford, Magdalen College, Oxford, United Kingdom | MSc Neuroscience, Distinction 2013–14
Dissertation 1: Inferring firing rates from local field potentials in the human subthalamic nucleus
Dissertation 2: Feedforward inhibition generates sparse representations of auditory stimuli in a spiking model of zebra finch caudomedial nidopallium
- Brown University, Providence, RI, United States | ScB Neuroscience, Honors 2009–13
Honors thesis: Neural activity in rodent perirhinal and medial agranular cortices in a Go/Delay-Go task

AWARDS, HONORS, AND FELLOWSHIPS.....

- Seattle Office of Arts & Culture CityArtist Grant 2018
- Artist Trust GAP Grant 2017
- UNLEASH Sustainable Development Goal Talent (Deferred) 2017
- Climate Reality Leader 2017
- Grist Senior Fellowship 2016**
- Salzburg Global Fellowship 2015**
- Manchester Integrated Systems Neuroscience Workshop Abstract Prize 2015
- Rhodes Scholarship 2013**
- Elected to Sigma Xi 2013
- Brown University Rose Writing Fellowship 2012
- National Science Foundation Research Experience for Undergraduates Award 2012
- Karen T. Romer Undergraduate Teaching & Research Award 2011

ANALYSIS, WRITING, AND EDITING

- Pierce County, Dept. Human Services, Homeless Programs. Tacoma, WA. Lead, data analysis and evaluation Oct 2017–Present
- Led program evaluation and implementation of data-driven culture initiative for Pierce County’s homeless programs
 - Designed, programmed, and deployed interactive online visualizations and contract monitoring tools
 - Built, trained, and analyzed supervised, unsupervised, and graphical models of homelessness system components
 - Piloted study of algorithmic prioritization tools that launched national investigation into Coordinated Entry practices
- Caldern LLC. Seattle, WA. Journalist, data and policy analyst, consultant July 2016–Present
- Journalism in energy policy, climate policy, environmental justice, politics, homelessness, and science policy
 - Communications and strategic advising in science/technology policy, digital media, and open data
- Grist.org. Seattle, WA. Senior Fellow ‘16, Fellow ‘15 July 2015–July 2016
- Wrote and edited articles and produced interactive data visualizations for environmental non-profit magazine
- Cafe.com. New York, NY. Science and Policy Writer Sept 2014–Jan 2015
- Researched and wrote neuroscience, infectious disease, and science-policy articles for digital magazine
- Passle. Oxford, UK. Blogger Sept 2013–June 2014
- Produced shortform science and science policy content for Oxford-based academic blogging platform
- Brown University Writing Center. Providence, RI. Writing Fellow Sept 2012–May 2013
- Edited student essays for argumentation, structure, and thesis clarity; conferenced with students
- Brown University Executive Master in Healthcare Leadership Program. Providence, RI. Case Writer June 2012–May 2013
- Wrote full-length case study on a developing country reforming its healthcare system; developed teaching goals
- Post- Magazine. Providence, RI. Editor-in-Chief ‘12, Managing Ed. of Arts and Culture ‘11, Section Ed. ‘10 Jan 2010–Jan 2013
- Advised managing editors and managed magazine calendar; regularly contributed to and edited magazine

SELECTED PUBLICATIONS, TALKS, ABSTRACTS, AND POSTERS.....

- Freelance contributions to or republication by The Economist, The Atlantic, Scientific American, Logic, Sierra, Crosscut, The New Republic, Mother Jones, Vox, Newsweek, Moyers & Company, Altnet, Fusion, CityLab, Business Insider. 2009–2019. Available online.

- **Aldern, C.** (2019) Algorithmic bias detection in homelessness services decision-making aids. In preparation.
- **Aldern, C.** (2019) A mixture Markov model of homelessness Coordinated Entry systems. In preparation.
- **Aldern, C.** (2018) Analyzing Systemic Racial Disparities With Statistical Learning Models and HMIS Data. *National Human Services Data Consortium 2018*. Pittsburgh, PA: National Human Services Data Consortium.
- **Aldern, C.** (2017) Cartographers Without Borders. *Logic*, 3, 175–184.
- **Aldern C, Vogels. TP.** (2015). Feedforward inhibition and inhibitory synaptic plasticity generate sparse and background invariant representations of auditory stimuli. *Integrated Systems Neuroscience Workshop 2015*. Manchester, UK: University of Manchester.
- **Aldern C, de Carbonnel, A (Ed).** (2015). High tech cities: How can we harness digital innovations to inform, engage and influence citizens? Session summary. Appears in: *Challenges of Government Conference 2014: Flourishing Cities—Conference Report*. Oxford, UK: Blavatnik School of Government.
- Bentkover JD, **Aldern C**, Shea MT, Lerner D, Richardson E. (2015). Consumer Information and Treatment Resources for Posttraumatic Stress Disorder: Within Reach but Not Grasp. *Harvard Review of Psychiatry*, 23(6), 1–12.
- **Aldern C, Bogacz R, Sharott A.** (2014) Inferring firing rates from local field potentials in the human subthalamic nucleus. figshare: <http://dx.doi.org/10.6084/m9.figshare.976058>. Poster.
- Burwell RD, Ho JW, **Aldern C**, Liu AR. (2012). Neuronal activity in perirhinal and prefrontal cortices during visual discrimination in a Go/NoGo task. *2012 Neuroscience Meeting Planner*. New Orleans, LA: Society for Neuroscience.

RESEARCH

- Vogels Lab, Centre for Neural Circuits and Behaviour, University of Oxford, UK. Lab technician March 2014–May 2016
- Created a computational model of sparsely coded and background noise-invariant sensory processing
- Bogacz Lab, Nuffield Dept. of Clinical Neurosciences, University of Oxford, UK. Research assistant Dec 2013–May 2014
- Applied supervised learning techniques to the prediction of single neuronal spike times from local field potentials
- Burwell Lab, Dept. of Cog., Ling., and Psych. Sci. Brown U., Providence, RI. Research assistant Sept 2011–May 2013
- Designed and conducted behavioral and electrophysiological experiments and analysis of rodent contextual memory
- Brown Department of Health Services, Policy, and Practice. Providence, RI. Project manager, researcher July 2012–Oct 2013
- Contracted and conducted research for One Mind for Research on treatment access for PTSD patients
- McGarvey Lab, Brown University International Health Institute. Apia, Western Samoa. Research assistant May–Sept 2011
- Conducted dietary interviews with Samoan fieldworkers in a community-wide study of adiposity in Samoans
- Engel Vision and Imaging Lab, Dept. of Psych., U. Minnesota, Minneapolis, MN. Research assistant June–Aug 2010
- Tested human subjects in psychophysical experiments on spatial frequency analysis

OTHER EMPLOYMENT AND SERVICE

- Social Justice Fund NW. Seattle, WA. Rural Justice Giving Project member, ongoing volunteer March 2016–Present
- Scored proposals, conducted site visits, fundraised, and assisted with communications for community foundation
- Bright Young Things Tuition. Oxford/London, UK. Tutor March 2014–May 2015
- Designed lesson plans and tutored Oxford University and GCSE students in biology, math, statistics, and writing
- Oxford Royale Academy. Oxford, UK. Teacher June–August 2014
- Taught two courses for high school age honors summer school (Experimental Psychology and SAT Prep)
- Marblar. London, UK. Technology analyst Nov 2013–Oct 2014
- Provided summaries and market evaluations of novel, crowdsourced ideas for existing technology/IP transfer
- Rhodes Science Group. Oxford, UK. Convener Oct 2013–May 2015
- Organized panel discussions and debates between interdisciplinary scientists and non-scientists
- Brown University Dept. Public Health and Dept. Neuroscience. Providence, RI. Teaching assistant Sept 2011–Dec 2012
- Course: Computational Vision: Taught MATLAB and machine learning seminars; assisted students with assignments
 - Course: The Burden of Disease in Developing Countries: Led weekly discussion sections and edited student essays

SKILLS AND INTERESTS.....

- Programming languages and environments (in order of comfort): R, Python, Tableau, MATLAB, git, SQL, D3.js
- Languages: English (native proficiency), French (professional proficiency)
- Other interests: AI governance, environmental justice, homelessness policy, climate policy, brain-computer interfaces