

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 Fellow	2016
Salzburg Global Fellow	2015
Manchester Integrated Systems Neuroscience Workshop Abstract Prize	2015
Rhodes Scholarship	2013
Elected to Sigma Xi	2013
Brown University Rose Writing Fellow	2012
National Science Foundation Research Experience for Undergraduates Award	2012
Karen T. Romer Undergraduate Teaching & Research Award	2011

WRITING, EDITING, AND ANALYSIS

Pierce County, Dept. Human Services, Homeless Programs. Tacoma, WA. Lead, data analysis and evaluation	Oct 2017–Present
<ul style="list-style-type: none">• Led program evaluation and other data-driven efforts for Pierce County’s homeless programs• Designed, programmed, and launched several interactive online visualizations and contract monitoring tools• Built, trained, deployed, and analyzed probabilistic machine-learning models of housing-project success	
Caldern LLC. Seattle, WA. Journalist, data and policy analyst, consultant	July 2016–Present
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Researched and wrote neuroscience, infectious disease, and science-policy articles for digital magazine	
Passle. Oxford, UK. Blogger	Sept 2013–June 2014
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Advised managing editors and managed magazine calendar; regularly contributed to and edited magazine	

SELECTED PUBLICATIONS, 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, Alternet, Fusion, CityLab, Business Insider. 2009–2018. Available online.

- **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, 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.
- Bentkover JD, **Aldern C**, Shea MT, Lerner D, Richardson E, Chadha AB, Jacques C, Bautista-Saeyan S, Kim H. (2014). Care for PTSD: Within Reach but Not Grasp. One Mind for Research: White paper.
- **Aldern C**, Burwell RD, Ho JW. (2013). Neural activity in rodent perirhinal and medial agranular cortices in a Go/Delay-Go task. figshare: <http://dx.doi.org/10.6084/m9.figshare.695955>. 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 machine 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 conducted 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: Environmental justice, homelessness policy, climate policy, AI v. civil rights, brain-computer interfaces