

# **Curriculum Vitae**

Adam R. Aron, Ph.D.

*Prepared October 2020*

## **CURRENT ADDRESS**

Department of Psychology  
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## **EDUCATION**

1999-2003: PhD., Cognitive Neuroscience, University of Cambridge, UK  
1996-1997: MSc, Cognitive Science, University of Edinburgh, UK  
1991-1994: BSc, Biochemistry/Philosophy, University of Cape Town, South Africa

## **EMPLOYMENT**

2015: Professor, Dept. Psychology, University of California, San Diego  
2011:2015 Associate Prof., Dept. Psychology, University of California, San Diego  
2006-2011 Assistant Prof., Dept. Psychology, University of California, San Diego  
2003-2006: Postdoctoral Fellow, Dept. Psychology, University of California, Los Angeles  
1998-1999: Research Assistant, Dept. Experimental Psychology, University of Cambridge

## **DOCTORAL THESIS**

The neural basis of inhibitory functions in executive control  
*Advisors: Trevor Robbins and Barbara Sahakian*

## **POSTDOCTORAL ADVISOR**

*Russell Poldrack*

## **RESEARCH INTERESTS**

Cognitive control/executive function  
Prefrontal cortex and basal ganglia  
Human brain imaging, electrophysiology, and brain stimulation  
Impulse control disorders: Tourette's, Huntington's disease and ADHD  
Psycho-social factors of collective action related to the climate crisis

## **AWARDS AND HONORS**

2020: UC San Diego Sustainability Outstanding Faculty Award  
2013: James S McDonnell Foundation Award  
2013: APA Distinguished Scientific Award for Early Career Contributions to Psychology  
2012: Young Investigator Award, Cognitive Neuroscience Society  
2008: NARSAD Young Investigator Award (\$60 000)  
2008: Alfred P Sloan Foundation Fellowship (\$50 000)

2006: UCLA Chancellor's Award for Postdoctoral Research  
2005: Travel Award – Organization for Human Brain Mapping  
2004: Travel Award – Society for Neuroscience and UCLA chapter  
2003: Travel Award – Brain (Oxford University Press)  
2001: Travel Award – Organization for Human Brain Mapping  
1999-2003: PhD studentship – UK Medical Research Council  
1996: Harry Crossley Bursary for Overseas Study - University of Cape Town

## GRANTS AND CONTRACTS

### CURRENT

Social Sciences Division (PI: Aron) 03/13/2020-03/12/2021  
UCSD

*What makes individuals join collective action on emissions reduction? A longitudinal study of undergraduates using persuasive videos*

2 R01 DA026452-11A1 (PI: Aron) 01/01/20-11/30/2024  
NIH/NIDA

*How inhibitory control prevents thought intrusions and sensory and motor provocations*

To use scalp EEG, functional MRI and Transcranial Magnetic stimulation to study how prefrontal and sensorimotor regions are implicated in preventing thought intrusions and sensory and motor provocations.

1 R01 NS106822-01 (PI: Aron) 05/15/18-04/30/2023  
NIH/NINDS

*Stopping behavior and interrupting cognition via subthalamic nucleus*

This multi-site grant pools human approaches with functional MRI and Transcranial Magnetic stimulation, human approaches with deep brain local field potential recording in Parkinson's disease, and a mouse tracing and optogenetic approach in a set of converging experiments on fronto-basal-ganglia circuits for stopping action.

### COMPLETE

2016-2020: NIH U01

Co-Investigator (PI: Pouratian)

*Invasive Approach to Model Human Cortex-Basal Ganglia Action-Regulating Networks*

James S McDonnell Foundation (PI: Aron)

JSMF

*A circuit for human self-control*

Uses various methodologies to test cognitive control in humans, for example a model of human urge.

2016-2017: Tourette Syndrome Association of America

Co-Investigator (PI: Gilbert)

*Pilot Study to Evaluate Feasibility of a Novel Voluntary Movement Suppression Paradigm Using Real-time Motor Physiological Feedback in Children with TS.*

2013-2016: NIH, R21 NS085543

Principal Investigator

*How stopping movement affects working memory*

2009-2014. NIH R01 DA026452

Principal Investigator

*Fronto-basal-ganglia circuits for selective stopping and braking*

2012-2013. Tourette's Syndrome Association

Co-Principal Investigator (PI: Chiu)

*Using real-time fMRI in Tourette Syndrome.*

2012-2013. Kavli Institute of Mind and Brain

Co-Principal Investigator (PI: Wessel)

*Parsing brain networks for self-control using simultaneous fMRI and EEG.*

2011-2012. CHDI

Principal Investigator

*Establishing the best longitudinal MRI biomarkers in premanifest Huntington's disease: analysis of multimodal data.*

2009-2011. NSF, 0921168

Principal Investigator

*Evaluating a Fronto-Basal-Ganglia White-Matter Network for Behavioral Stopping in Lesion Patients*

2008-2010. CHDI

Principal Investigator

*Longitudinal assessment of frontostriatal activation in patients with presymptomatic Huntington's disease*

2008-2010. NARSAD

Principal Investigator

*Neuropsychiatric effects of deep brain stimulation in patients with Parkinson's disease: a model for hypomania?*

2007-2008. UCSD Academic Senate

Principal Investigator

*Studying control functions in patients with frontal lobe damage*

2008-2009 UCSD Academic Senate

Principal Investigator

*A functional magnetic resonance imaging study of the right inferior frontal cortex*

## **PUBLICATIONS**

*\*denotes senior author paper with my students or postdocs*

**Aron, A. R** and Nelson, M. (2020). Climate Action by the University of California is more Spin than Substance. *ZNET online*.

- Aron, A. R.**, Ivry, R. B., Jeffery, K. J., Poldrack, R. A., Schmidt, R., Summerfield, C., et al. (2020). How Can Neuroscientists Respond to the Climate Emergency? *Neuron*, 106(1), 17-20.
- Jana, S., Hannah, R., Muralidharan, V., & **Aron, A. R.\***. (2020). Temporal cascade of frontal, motor and muscle processes underlying human action-stopping. *Elife*, 9.
- Pflanz, C. P., Charquero-Ballester, M., Majid, D. S. A., Winkler, A. M., Vallee, E., **Aron, A. R.**, et al. (2020). One-year changes in brain microstructure differentiate preclinical Huntington's disease stages. *Neuroimage Clin*, 25, 102099.
- Aron AR** (2019) The Climate Crisis Needs Attention from Cognitive Scientists. *Trends Cogn Sci*.
- Castiglione A, Wagner J, Anderson M, **Aron AR\*** (2019) Preventing a Thought from Coming to Mind Elicits Increased Right Frontal Beta Just as Stopping Action Does. *Cereb Cortex*.
- Muralidharan V, Yu X, Cohen MX, **Aron AR\*** (2019) Preparing to Stop Action Increases Beta Band Power in Contralateral Sensorimotor Cortex. *J Cogn Neurosci*:1-12.
- Sundby KK, Wagner J, **Aron AR\*** (2019) The Functional Role of Response Suppression during an Urge to Relieve Pain. *J Cogn Neurosci*:1-18.
- Verbruggen F, **Aron et al.** et al. (2019) A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task. *Elife* 8.
- Ghahremani A, **Aron AR**, Udupa K, Saha U, Reddy D, Hutchison WD, Kalia SK, Hodaie M, Lozano AM, Chen R (2018a) Event-Related Deep Brain Stimulation of the Subthalamic Nucleus Affects Conflict Processing. *Ann Neurol*.
- Bartoli E, **Aron AR**, Tandon N (2018) Topography and timing of activity in right inferior frontal cortex and anterior insula for stopping movement. *Hum Brain Mapp* 39:189-203.
- Finzi RD, Postle BR, Brady TF, **Aron AR\*** (2018) Retraction Note: Unexpected events disrupt visuomotor working memory and increase guessing. *Psychon Bull Rev*.
- Ghahremani A, Wessel JR, Udupa K, Neagu B, Zhuang P, Saha U, Kalia SK, Hodaie M, Lozano AM, **Aron AR**, Chen R (2018b) Stopping and slowing manual and spoken responses: Similar oscillatory signatures recorded from the subthalamic nucleus. *Brain Lang* 176:1-10.
- Moore BD, **Aron AR**, Tandon N (2018) Closed-loop intracranial stimulation alters movement timing in humans. *Brain stimulation* 11:886-895.
- Wagner J, Wessel JR, Ghahremani A, **Aron AR\*** (2018) Establishing a Right Frontal Beta Signature for Stopping Action in Scalp EEG: Implications for Testing Inhibitory Control in Other Task Contexts. *J Cogn Neurosci* 30:107-118.
- Fife KH, Gutierrez-Reed NA, Zell V, Bailly J, Lewis CM, **Aron AR**, Hnasko TS (2017) Causal role for the subthalamic nucleus in interrupting behavior. *Elife* 6.
- Finzi RD, Postle BR, Brady TF, **Aron AR\*** (2017) Unexpected events disrupt visuomotor working memory and increase guessing. *Psychon Bull Rev*.
- Marini F, Scott J, **Aron AR**, Ester EF (2017) Task-irrelevant distractors in the delay period interfere selectively with visual short-term memory for spatial locations. *Atten Percept Psychophys* 79:1384-1392.
- Wessel JR, **Aron AR\*** (2017) On the globality of motor suppression: unexpected events and their influence on behavior and cognition. *Neuron*
- Aron AR**, Herz DM, Brown P, Forstmann B, Zaghoul K (2016) Fronto-Subthalamic Circuits for Control of Action and Cognition. *Journal of Neuroscience*.
- Freeman SM, Itthipuripat S, **Aron AR\*** (2016) High Working Memory Load Increases Intracortical Inhibition in Primary Motor Cortex and Diminishes the Motor Affordance Effect. *J Neurosci* 36:5544-5555.

- Wessel JR, Jenkinson N, Brittain JS, Voets SE, Aziz T, **AR Aron\*** (2016) Surprise disrupts cognition via a fronto-basal ganglia suppressive mechanism. *Nature Communications*.
- Freeman SM, **Aron AR\*** (2016) Withholding a Reward-driven Action: Studies of the Rise and Fall of Motor Activation and the Effect of Cognitive Depletion. *J Cogn Neurosci* 28:237-251.
- Swann NC, de Hemptinne C, **Aron AR**, Ostrem JL, Knight RT, Starr PA (2015) Elevated synchrony in Parkinson disease detected with electroencephalography. *Ann Neurol* 78:742-750.
- Aron AR**, Cai W, Badre D, Robbins TW (2015) Evidence Supports Specific Braking Function for Inferior PFC. *Trends Cogn Sci* 19:711-712.
- Wessel JR, Tonnesen AL, **Aron AR\*** (2015) Stimulus devaluation induced by action stopping is greater for explicit value representations. *Front Psychol* 6:1640.
- Freeman SM, Alvernaz D, Tonnesen A, Linderman D, **Aron AR\*** . Suppressing a motivationally-triggered action tendency engages a response control mechanism that prevents future provocation. *Neuropsychologia*. 2015;68:218-31
- Majid DA, Lewis C, **Aron AR\***. Training voluntary motor suppression with real-time feedback of motor evoked potentials. *J Neurophysiol*. 2015;jn 00992 2014
- Wessel JR, **Aron AR\***. Inhibitory motor control based on complex stopping goals relies on the same brain network as simple stopping. *Neuroimage*. 2014
- Wessel JR, v. It's not too late: The onset of the frontocentral P3 indexes successful response inhibition in the stop-signal paradigm. *Psychophysiology*. 2014
- Wessel JR, O'Doherty JP, Berkebile MM, Linderman D, **Aron AR\***. Stimulus devaluation induced by stopping action. *J Exp Psychol Gen*. 2014;143(6):2316-29
- Aron AR**, Robbins TW, Poldrack RA. Right inferior frontal cortex: addressing the rebuttals. *Front Hum Neurosci*. 2014;8:905
- Chiu YC, Cools R, **Aron AR\*** (2014). Opposing Effects of Appetitive and Aversive Cues on Go/NoGo Behavior and Motor Excitability. *J Cognit Neuroscience*
- Aron, A.R**, Robbins, T.W, Poldrack, R.A (2014). Inhibition and the right inferior frontal cortex: One decade on. *Trends in Cognitive Sciences*
- Freeman, S, Razhas, I, **Aron, A.R\*** (2014). Top-down response suppression mitigates action tendencies triggered by a motivating stimulus. *Current Biology*
- Wessel, J.R, Conner, C.R, **Aron, A.R**, Tandon N (2013). Chronometric electrical stimulation of right inferior frontal cortex increases motor braking. *Journal of Neuroscience*.
- Wessel, J.R & **Aron, A.R\*** (2013). Unexpected events induce motor slowing via a brain mechanism for action-stopping with global suppressive effects. *Journal of Neuroscience*.
- George, J.S Strunk J, Mak-McCully R, Houser M, Poizner H, **Aron AR\*** (2013). Dopaminergic therapy in Parkinson's disease decreases cortical beta band coherence in the resting state and increases cortical beta band power during executive control. *Neuroimage: Clinical*.
- Majid, A., Cai, W., Corey-Bloom, J. & **Aron, A.R.\*** (2013). Proactive selective response suppression is implemented via the basal ganglia. *Journal of Neuroscience*.
- Wessel, J.R., Reynoso, H.S. & **Aron, A.R.\*** (2013) Saccade suppression exerts global effects on the motor system. *Journal of Neurophysiology*.
- Greenhouse I, Gould S, Houser M & **Aron AR\*** (2013). Stimulation of ventral but not dorsal contacts in the subthalamic nucleus normalizes response switching in Parkinson's disease. *Neuropsychologia*
- Chiu YC & **Aron AR\*** (2013). Unconsciously triggered response inhibition requires an executive setting. *Journal of Experimental Psychology: General*.

- Itthipuripat S, Wessel JR, **Aron AR\*** (2013). Frontal theta is a signature of successful working memory manipulation. *Experimental Brain Research*.
- Chiu YC, **Aron AR**, Verbruggen F (2012). Response suppression by automatic retrieval of stimulus-stop association: evidence from Transcranial Magnetic Stimulation *J Cogn Neurosci*.
- Ghahremani D, Lee B, Robertson C, Tabibinia G, Morgan A, De Shetler N, Brown A, Monterosso K, **Aron AR**, Poldrack RA, London ED (2012). Striatal dopamine D2/D3 receptors mediate response inhibition and related activity in fronto-striatal neural circuitry in humans. *J Neurosci*
- Cai W, George J, Chambers C, Verbruggen F, **Aron AR\*** (2012). The role of the right presupplementary motor area in stopping action: two studies with event-related Transcranial Magnetic Stimulation *J Neurophysiol*
- Aron AR, Obeso J (2012). Editorial: Is executive control used to compensate for involuntary movements in levopopa induced dyskinesia? *Movement Disorders*
- Seibert T, Majid DSA, **Aron AR**, Corey-Bloom J, Brewer JB (2012). Stability of resting fMRI interregional correlations analyzed in subject-native space: a one-year longitudinal study in healthy adults and premanifest Huntington's disease. *Neuroimage*
- Majid, D.S.A., Cai W, George, J., Verbruggen F, **Aron, A.R\*** (2012). Transcranial Magnetic Stimulation reveals dissociable mechanisms for global versus selective corticomotor suppression underlying the stopping of action. *Cerebral Cortex*
- Greenhouse I, Oldenkamp C, **Aron AR\*** (2012). Stopping a response has global or non-global effects on the motor system depending on preparation. *Journal of Neurophysiology*
- Cai W, Oldenkamp C, **Aron AR\*** (2011). Stopping speech suppresses the task irrelevant hand. *Brain and Language*.
- Cai W, George JS, Chambers CD, Stokes MG, Verbruggen F, **Aron AR\*** (2011). Stimulating deep cortical structures with the Batwing Coil: how to determine the intensity for Transcranial Magnetic Stimulation using coil-cortex distances. *Journal of Neuroscience Methods*.
- Swann NC, Cai W, Conner CR, Pieters TA, Claffey MP, George JS, **Aron AR**, Tandon N (2011). Roles for the pre-supplementary motor area and the right inferior frontal gyrus in stopping action: Electrophysiological responses and functional and structural connectivity. *Neuroimage*.
- Majid D.S.A, **Aron AR**, Thompson W, Sheldon S, Hamza S, Stoffers D, Holland D, Goldstein J, Corey-Bloom J, Dale AM (2011). Basal Ganglia atrophy in prodromal Huntington's disease is detectable over one year using automated segmentation. *Movement Disorders*
- Cai W, Oldenkamp C, **Aron A.R\*** (2011). A proactive mechanism for selective suppression of response tendencies. *Journal of Neuroscience*.
- Swann, N., Poizner, H., Houser, M., Gould, S., Greenhouse, I., Cai, W., Strunk, J., George, J. & **Aron, A.R\***. (2011) Deep brain stimulation of the subthalamic nucleus alters the cortical profile of response inhibition in the beta frequency band: a scalp EEG study in Parkinson's disease. *Journal of Neuroscience*.
- Tabibnia G, Monterosso J, Baicy K, **Aron AR**, Poldrack RA, Chakrapani S, Lee B, London ED (2011). Different forms of self-control share a neurocognitive substrate. *Journal of Neuroscience*
- Majid, D.S.A., Stoffers, D., Sheldon, S., Hamza, S., Thompson, W.K., Goldstein, J., Corey-Bloom, J. & **Aron, A.R\***. (2011) Automated structural imaging analysis detects premanifest Huntington's disease neurodegeneration within one year. *Movement Disorders*.

- Greenhouse I, Gould S, Houser M, Hicks G, Gross J, **Aron AR\*** (2011). Stimulation at dorsal and ventral electrode contacts targeted at the subthalamic nucleus has different effects on motor and emotion functions in Parkinson's disease. *Neuropsychologia*.
- Gupta N, **Aron AR\*** (2011). Urges for food and money spill over into motor system excitability before action is taken. *European Journal of Neuroscience*
- Aron, A.R** (2010). From proactive to reactive and selective control: developing a richer model for stopping inappropriate responses. *Biological Psychiatry*.
- Verbruggen F, **Aron AR**, Stevens M, Chambers C (2010). Theta burst stimulation dissociates attention and action updating in human inferior frontal cortex". *Proceedings of the National Academy of Sciences, USA*. [Epub ahead of print]
- Congdon E, Mumford J, Cohen J, Galvan A, **Aron AR**, Xue G, Miller E, & Poldrack RA (2010). Engagement of large-scale networks is related to individual differences in inhibitory control. *NeuroImage*. [Epub ahead of print]
- Rizk-Jackson A, Stoffers D, Sheldon S, Kuperman J, Dale A, Goldstein J, Corey-Bloom J, Poldrack RA, **Aron AR\*** (2010). Evaluating imaging biomarkers for neurodegeneration in presymptomatic Huntington's disease using machine learning techniques. *Neuroimage*
- Stoffers D, Sheldon S, Kuperman J, Goldstein J, Corey-Bloom J, **Aron AR\*** (2010) Contrasting grey- and white matter changes in preclinical Huntington's disease: an MRI study. *Neurology*, Apr 13;74(15):1208-16.
- Claffey M, Sheldon S, Stinear CM, Verbruggen F, **Aron AR\*** (2010). Having a goal to stop action is associated with advance control of specific motor representations. *Neuropsychologia*, Jan;48(2):541-8
- Swann, N., Tandon, T., Canolty, R., Ellmore, T., McEvoy, L., Dreyer, S., M, D., & **Aron, A. R\*** (2009). Intracranial EEG reveals a time- and frequency-specific role for the right inferior frontal gyrus and primary motor cortex in stopping initiated responses. *Journal of Neuroscience*, 7(29) 40:12675-85
- Jahfari, S., Stinear, C. M., Claffey, M., Verbruggen, F., & **Aron AR\*** (2009). Responding with restraint: what are the neurocognitive mechanisms? *Journal of Cognitive Neuroscience*
- Aron, A. R.**, & Verbruggen, F. (2008). Stop the presses: dissociating a selective from a global mechanism for stopping. *Psychological Science*, 19(11), 1146-1153.
- Xue, G., **Aron, A. R.**, & Poldrack, R. A. (2008). Common neural substrates for inhibition of spoken and manual responses. *Cerebral Cortex*, 18(8), 1923-1932.
- Aron, A. R.** (2008a). Progress in Executive Function Research: From tasks to functions to regions to networks. *Current Directions in Psychological Science*.
- Aron, A. R.** (2008b). Introducing a special issue on stopping action and cognition. *Neuroscience and Biobehavioral Reviews*
- Tohka, J., Foerde, K., **Aron, A. R.**, Tom, S. M., Toga, A. W., & Poldrack, R. A. (2008). Automatic independent component labeling for artifact removal in fMRI. *Neuroimage*, 39(3), 1227-1245.
- Huddy, V. C., **Aron, A. R.**, Harrison, M., Barnes, T. R., Robbins, T. W., & Joyce, E. M. (2008). Impaired conscious and preserved unconscious inhibitory processing in recent onset schizophrenia. *Psychological Medicine*, 1-10.
- Clark, L., Blackwell, A. D., **Aron, A. R.**, Turner, D. C., Dowson, J., Robbins, T. W., & Sahakian, B. J. (2007). Association between response inhibition and working memory in adult ADHD: a link to right frontal cortex pathology? *Biological Psychiatry*, 61(12), 1395-1401.

- Aron, A. R.** (2007). The neural basis of inhibition in cognitive control. *Neuroscientist*, *13*(3), 214-228.
- Aron, A. R.**, Behrens, T. E., Smith, S., Frank, M. J., & Poldrack, R. A. (2007). Triangulating a cognitive control network using diffusion-weighted magnetic resonance imaging (MRI) and functional MRI. *Journal of Neuroscience*, *27*(14), 3743-3752.
- Aron, A. R.**, Durston, S., Eagle, D. M., Logan, G. D., Stinear, C. M., & Stuphorn, V. (2007). Converging evidence for a fronto-basal-ganglia network for inhibitory control of action and cognition. *Journal of Neuroscience*, *27*(44), 11860-11864.
- Aron, A. R.**, & Poldrack, R. A. (2006). Cortical and subcortical contributions to Stop signal response inhibition: role of the subthalamic nucleus. *Journal of Neuroscience*, *26*(9), 2424-2433.
- Rodriguez, P. F., **Aron, A. R.**, & Poldrack, R. A. (2005). Ventral-striatal/nucleus-accumbens sensitivity to prediction errors during classification learning. *Human Brain Mapping*.
- Monterosso, J. R., **Aron, A. R.**, Cordova, X., Xu, J., & London, E. D. (2005). Deficits in response inhibition associated with chronic methamphetamine abuse. *Drug and Alcohol Dependence*.
- Aron, A. R.**, Gluck, M. A., & Poldrack, R. A. (2005). Long-term test-retest reliability of functional MRI in a classification learning task. *Neuroimage*.
- Aron, A. R.**, & Poldrack, R. A. (2005). The cognitive neuroscience of response inhibition: relevance for genetic research in attention-deficit/hyperactivity disorder. *Biological Psychiatry*, *57*(11), 1285-1292.
- Aron, A. R.**, Monsell, S., Sahakian, B. J., & Robbins, T. W. (2004). A componential analysis of task-switching deficits associated with lesions of left and right frontal cortex. *Brain*, *127*, 1561-1573.
- Aron, A. R.**, Shohamy, D., Clark, J., Myers, C., Gluck, M. A., & Poldrack, R. A. (2004). Human midbrain sensitivity to cognitive feedback and uncertainty during classification learning. *Journal of Neurophysiology*, *10*, 10.
- Aron, A. R.**, Robbins, T. W., & Poldrack, R. A. (2004). Inhibition and the right inferior frontal cortex. *Trends in Cognitive Sciences*, *8*(4), 170-177.
- Aron, A. R.**, Watkins, L., Sahakian, B. J., Monsell, S., Barker, R. A., & Robbins, T. W. (2003). Task-set switching deficits in early-stage Huntington's disease: implications for basal ganglia function. *Journal of Cognitive Neuroscience*, *15*(5), 629-642.
- Aron, A. R.**, Fletcher, P. C., Bullmore, E. T., Sahakian, B. J., & Robbins, T. W. (2003). Stop-signal inhibition disrupted by damage to right inferior frontal gyrus in humans. *Nature Neuroscience*, *6*(20), 115-116.
- Aron, A. R.**, Schlaghecken, F., Fletcher, P. C., Bullmore, E. T., Eimer, M., Barker, R., Sahakian, B. J., & Robbins, T. W. (2003). Inhibition of subliminally primed responses is mediated by the caudate and thalamus: evidence from functional MRI and Huntington's disease. *Brain*, *126*(Pt 30), 713-723.
- Aron, A. R.**, Sahakian, B. J., & Robbins, T. W. (2003). Distractibility during selection-for-action: differential deficits in Huntington's disease and following frontal lobe damage. *Neuropsychologia*, *41*(922639095), 1137-1147.
- Aron, A. R.**, Dowson, J., Sahakian, B. J., & Robbins, T. W. (2003). Methylphenidate improves response inhibition in adults with Attention Deficit/Hyperactivity Disorder. *Biological Psychiatry*, *54*, 1465-1468.
- Turner, D. C., Robbins, T. W., Clark, L., **Aron, A. R.**, Dowson, J., & Sahakian, B. J. (2003). Relative lack of cognitive effects of methylphenidate in elderly male volunteers. *Psychopharmacology*, *168*(4), 455-464.



Turner, D. C., Robbins, T. W., Clark, L., **Aron, A. R.**, Dowson, J., & Sahakian, B. J. (2002).  
Cognitive enhancing effects of modafinil in healthy volunteers. *Psychopharmacology*,  
165(3), 260-269.

## **PROFESSIONAL DUTIES**

### Journal articles

American Journal of Psychiatry; Archives General Psychiatry; Brain; Cerebral Cortex;  
Cognition; Cortex; Current Directions in Psychological Science; European Journal of  
Neuroscience; Exp Brain Research; eLife\*; Human Brain Mapping; Journal of Cognitive  
Neuroscience\*; Journal of Experimental Psychology: General; Journal of Neurophysiology\*;  
Journal of Neurology Neurosurgery and Psychiatry; Journal of Neuroscience\*; Nature  
Neuroscience; Nature Reviews Neurology; Nature Reviews Neuroscience; Neuron;  
Neuropsychologia; Neuropsychopharmacology; New York Academy of Sciences; PNAS;  
Progress in Neurobiology; Psychological Medicine; Psychological Science; Psychological  
Review; Science; Trends in Cognitive Sciences.

\* *regular*

### Grant Reviewing

Standing Grant Review Member, Cognition and Perception Study Section, NIH, 2014-2018  
Ad Hoc Grant Reviewer NIH Study Sections: CP (2010,13), CEBRA (2012, 2014), SPC (2012)  
Scientific Advisory Board for Tourette's Syndrome Association (2011-2014)  
Grant Reviewer: National Science Foundation; FWO Vlaanderen; Netherlands (NWO)

### Other

Standing Reviewing Editor, eLife (2018-)  
Occasional Editor, Proceedings National Academy of Sciences USA  
Cognitive Neuroscience Society Minisymposium Committee 2014, 2015  
Editorial Advisory Board for Neuropsychologia (2007-current)  
Member NIH RDoC committee on Sensorimotor function (2016).

## **PROFESSIONAL SOCIETIES**

Society for Neuroscience  
Organization for Human Brain Mapping\*  
Cognitive Neuroscience Society\*  
Psychonomics\*  
\* occasional

## **POSTDOCTORAL FELLOWS AND GRADUATE STUDENTS**

### *Postdoctoral Fellows*

Ricci Hannah, Ph.D, 2018-current  
Vignesh Muralhidaran, Ph.D, 2017-current  
Sumitash Jana, Ph.D, 2017-current  
Johanna Wagner, Ph.D, 2016- 2017  
Francesco Marini, Ph.D, 2014-2016  
Jan Wessel, Ph.D, 2011-2015 (now assistant Professor Iowa Dept Psychology)  
Yu-Chin Chiu, Ph.D, 2010-2013 (now assistant Professor Purdue)  
Weidong Cai, Ph.D, 2009-2012 (now K award at Stanford)  
Nitin Gupta, Ph.D, 2009-2010 (now assistant professor Indian Institute of Technology)  
Diederick Stoffers, Ph.D, 2008-2009

## *Graduate Students*

### Current

Kelsey Sundby, B.A (2016-)  
Anna Castiglione, B.S (2018-)  
Pria Daniel (2019-current)

### Complete

Scott Freeman, BA, 2011-2016, Psychology Graduate Program, NSF graduate fellow  
Adnan Majid, B.S, 2009-2013, Med. Student Training Program and Neuroscience  
Grad. Program, funded by NRSA (F31) predoc. Fellowship (now psychiatry training)  
Ian Greenhouse, B.A, 2007-2012, Psychology Graduate Program, funded by INC NIH  
training grant fellowship (now assistant professor U of Oregon)  
Nicole Swann, M.A, 2007-2012, Neuroscience Graduate Program, funded by NSF  
fellowship, NSF Socrates Fellowship, INC NIH training grant fellowship (now  
assistant professor U of Oregon)

## **OTHER SUPERVISION**

### *Other graduate students*

Catherine Tallman, B.A (2018)  
Kathleen Lyons, BA, MSc (2016)  
Melissa Burney, BA, 2013-2015, Psychology Graduate Program, Katzin scholar award  
John Case, BS, 2013-2014, Psychology Graduate Program  
Mike Claffey, BS, 2007-2008

### *Honors student projects*

Alex Friedman, 2017-2018  
Cynthia Yu, 2017-2018  
Anna Castiglione, 2016-2017 (now graduate student UCSD)  
Carol Lee, 2011-2012 (now clinical psychology PhD program U Mass)  
Caitlin Oldenkamp, 2010-2011 (now medical school UCLA)  
Sarah Sheldon, 2009-2010  
Veronique Boucquey, 2008-2009 (now graduate student at UC Irvine)

### *199 volunteers (one or two quarters)*

Melissa Aguilar, Aiyana Bailin, Matt Johnson; Samar Hamza; Laura Vergel De Dios; Derek Huffman; Patti Shih; Minya Koruga; Caitlin Oldenkamp; Jon Strunk; Veronique Boucquey; Sarah Sheldon; Melissa Aguilar, Ieva Rhezas, Julie Schmuttermair, Diana Kneiber, Aiyana Bailin; David Linderman; Michael Berkibile; Dominic Alvernaz, Ali Tonneson, Christina Lewis, Amanda Goold, Dianze Lu, Kelly Dong, Jerry Scott, Anna Castiglione, Mollie Paster, Cynthia Yu, Cheyenne Schloffman, Daphne Strano, Alex Friedman, Hunter Robbins, Michael Ting, Emma Carey, Jane

### *Rotating UCSD Neuroscience Graduate Students*

Nicole Swann; Adnan Majid; Sirawaj Itthipurapat; Rachel Mak-McCully, Erik Kaestner, Sequoyah Reynoso, Daniel Stern, Seraphina Solders.

### *STARS minority program*

Gabriela Seropian, 2010, San Jose State

Marina Nakhla, 2016, Cal State Northridge

*Visiting grad students*

Ayda Ghahramani, 2016 (3 months), U of Toronto

Danielle De Weld, 2007 (6 months), University of Leiden, Netherlands

Sarah Jahfari, 2008 (6 months), University of Amsterdam, Netherlands

**TEACHING**

Psyc185: *Undergraduate*, 'Psychology of Climate Crisis', 2019, 2020

Psyc108: *Undergraduate*, 'Introduction to Cognitive Neuroscience', 2007-18

Psyc193/123: *Undergraduate*, 'Cog. control and frontal lobe', 2007,09,11,13, 16, 17,18

Psyc276: *Graduate*, 'Psychosocial aspects climate crisis', 2019

Psyc210: *Graduate*, 'The methods of human cognitive neuroscience', 2017,18,19

Neu200C: *Graduate*, 'Cognitive neuroscience proseminar', 2013,14,15,16

Psyc272: *Graduate*, 'The role of the basal ganglia in action and cognition', 2008, 2012

Cogs200: *Graduate*, 'The cognitive neuroscience of motivation and emotion', 2011

Psyc272: *Graduate*, 'Impulsivity', 2010

**UNIVERSITY SERVICE**

Executive Committee Member – the Seventh College ("Changing the Planet") at UCSD  
Academic Senate, Faculty Welfare Committee (vice chair then Chair), 2018,19

Psychology Department, Academic Personnel Files, 2018-current

Psychology Department, Admissions Committee, 2012-2019

Academic Senate, Committee for Academic Freedom, 2017-18.

Academic Senate, Department Representative, 2016-2017

Co-organizer Cog Neural Systems Seminar, 2008-current

Neuroscience Graduate Program Admissions Committee, 2015-2016

Psychology Department, Grad Affairs Committee, 2013-2015

Dept Psychology Search Committee: Cog and Behav, Neuroscience, 2013-14

Steering committee, Keck Center for functional MRI, 2007-2014

Psychology Department Colloquium Committee, 2011-2013

Organizer one-day workshop CTRI/cfMRI symposium 2012

Dept of Psychology Search Committee, Sensation and Perception, 2008

Participant in Sustainability Across the Curriculum Workshop, Spring 2007

Neuroscience Graduate Program Thesis committee for Claire Geddes (2016-), Sarah Israel (2007-2010), Sam Nummella (2008), Nicki Swann (2007-2012), Adnan Majid (2010-2013), Emilie Schwager (2011, 2012).

Psychology Graduate Program Qualifying committee or Thesis member for Tiffany Ho (2010), Ian Greenhouse (2010-2012), Stephanie Carmack (2012), Galit Hoffree (2012), Mike Claffey (2010); Mary Smith (2013,14), Evan Carr (2014)

**CONFERENCE ORGANIZING**

Co-organizer (with Badre and Cools) of Control Processes meeting – San Diego 2016, Amsterdam 2017, Brown 2019

Organizer of UCSD Workshop "Translational Aspects of Stopping", 2007,2010, 13,18

**INVITED ADDRESSES**

2020

Invited speaker – climate solutions summit, UCSD

Invited speaker – Design at Large on teaching the climate crisis

*2019*

Neuroscience Seminar – Brown University

Chairman and Symposium Speaker – Society for Neuroscience

Invitation to give keynote - Australasian Cognitive Neuroscience Meeting – declined as a member of the flyingless movement

*2018*

Seminar – Dept. of Psychology – San Diego State University

Seminar – Danish Research Center for Magnetic Resonance - Copenhagen

*2017*

Seminar – Neuroscience Seminar Series – UC San Francisco

Invited speaker – Progress in Motor Control - Miami

Cognitive Brown Bag – UCSD

Seminar – Bernstein Center for Computational Neuroscience – Berlin

Seminar – Donders Institute, Radboud University – Holland

Seminar – Dept. of Psychology, University of Amsterdam – Holland

Seminar – Cardiff University Brain Imaging Center - UK

*2016*

Chairman and Symposium Speaker – Society for Neuroscience 2016

Invited talk - Tourette's Syndrome Symposium, Rady Children's Hospital, UCSD

Chalk Talk – Institute of Neural Computation, UCSD

*2015*

Seminar - Toronto Western Research Institute, Canada

*2014*

Seminar – Caltech, Pasedena, California

Southern California Learning and Memory Symposium - UCLA

Minisymposium – Cognitive Neuroscience Society Meeting - Boston

Gordon Conference – Basal Ganglia – Ventura California

*2013*

Brain, Mind and Society Seminar Series – Caltech

Experimental Psychology Colloquium – Oxford University

Intentional inhibition workshop presentation – University College London

Seminar Series – Hamburg Medical School

Brain Mapping Seminar Series – Ahmanson Lovelace Center - UCLA

Cognitive Brown Bag – University of California Riverside

*2012*

Minisymposium – Society for Neuroscience – New Orleans

Institute of Cognitive Neuroscience – London, UK

Institute of Movement Neuroscience – London, UK

Magstim workshop on Transcranial Magnetic Stimulation – University of Oxford, UK

Young Investigator Address – Cognitive Neuroscience Society – Chicago

NIMH Center on Executive Function & Dysfunction – University of Colorado, Boulder

*2011*

Department of Psychology – University of California Santa Barbara

Colloquium – Department of Psychology - UCSD

University of Michigan, Ann Arbor

*2010*

Donders Institute for Brain, Cognition and Behavior - Nijmegen, Netherlands

Department of Psychology - University of Amsterdam - Netherlands

UCSD Neuroscience retreat, Lake Arrowhead, California  
Dept of Psychiatry, Schwarz Symposium – Yale University  
Dept of Psychological and Brain Sciences – Johns Hopkins  
*2009*

Tourette’s Syndrome Association - New York  
Merck Neuroscience Seminar series – UCSD  
*2008*

Grand Rounds in Neurology – UCSD  
University of Texas Medical School at Houston  
*2007*

Minisymposium – Society for Neuroscience – New Orleans  
UCSD Neuroscience retreat, Lake Arrowhead, California  
Scripps Green Hospital – San Diego  
Scripps Research Institute – San Diego  
UCSD Psychiatry Dept  
*2006*

Cognitive Forum - UCLA  
Dept of Psychology - University of California, Berkeley  
Dept of Psychology - University of Arizona  
*2005*

Grand Rounds – Veterans Administration W. Los Angeles  
UC Irvine  
Amsterdam Conference on Cognitive Control - Netherlands  
*2004*

Advancing the Neuroscience of ADHD – Boston  
Ahmanson-Lovelace Brain Mapping Center Seminar Series –UCLA  
Center for the Neurobiology of Learning and Memory, UC Irvine  
Annual Cognitive Neuroscience of Category Learning Workshop – NYC