Steven Paul Errington | Curriculum Vitae

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Appointments

Jan 2023 to Present	Postdoctoral Research Associate — Washington University School of Medicine, Saint Louis Supervisor: Professor Ilya Monosov
Education	
Aug 2017 to Dec 2022	PhD Psychological Sciences (Neuroscience) — Vanderbilt University, Nashville. Area: <i>Neural mechanisms of cognitive control in the primate medial frontal cortex.</i> Supervisor: Professor Jeffrey D. Schall
Jul 2013 to Dec 2014	MRes Neuroscience — Newcastle University, Newcastle-upon-Tyne. Thesis title: <i>Understanding the relationship between visual hallucinations, visuo-perceptual function and attention: a Masters in Research student pilot study</i>
Sept 2010 to Jun 2013	BSc (Hons) Psychology — Northumbria University, Newcastle-upon-Tyne. Thesis title: <i>Hemispherical differences in emotional processing in healthy adults: a personality-controlled, tDCS study.</i>

Teaching Experience

Sept 2021 to Dec 2022	Teaching Assistant — Vanderbilt University, Nashville, TN.
Sept 2018 to Jun 2019	Courses: <i>PSY2750 (Perception)</i> , <i>PSY2150 (Principles of Experimental Design)</i>
Oct 2014 to Jun 2017	Graduate Demonstrator — Newcastle University, Newcastle-upon-Tyne. Courses: <i>PSY1010 (Research Methods and Skills 1), PSY1011 (</i> Research Methods and Skills 2), <i>PSY2009 (Methods in Psychology 2A)</i>

Awards, Funding, & Grants

Apr 2022	VU Graduate Leadership Anchor Award, Vanderbilt University.
Sept 2021	VU Graduate School Travel Grant, \$500, Vanderbilt University.
May 2021	VU Psychology Department Scholarship Award, \$400, Vanderbilt University.
Apr 2020	VU Psychology Department Scholarship Award, \$150, Vanderbilt University.
Jul 2019	VU Graduate School Travel Grant, \$500, Vanderbilt University.
Apr 2019	William F. Hodges Teaching Assistant Award, \$500, Vanderbilt University.
Mar 2019	VU Psychology Department Scholarship Award, \$1100, Vanderbilt University.
Nov 2018	SfN Trainee Professional Development Award, \$1000, Society for Neuroscience.
Nov 2015	NIHR Travel Grant, £2000, Biomedical Research Unit, Newcastle University & ARUK
Jul 2015	Newcastle University Vacation Scholarship Award, £1920, Newcastle University.
Aug 2013	NIHR Biomedical Research Unit MRes Studentship, £5500, Newcastle University.
Jun 2012	Wellcome Trust Biomedical Vacation Scholarship, £1440, Wellcome Trust.

Professional Memberships

Nov 2017 to present Society	for Neuroscience,	Student Member
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 Dec 2018 to Dec 2021
 Vision Science Society, Student Member

 Dec 2018 to Dec 2019
 American Association for the Advancement of Science, Student Member

Science Outreach & Service

Jan 2020 to Feb 2020	Vanderbilt University Psychology Faculty Search, Student Liaison
July 2019	Summer Academy at Vanderbilt for the Young, Guest Speaker
Mar 2019	Vanderbilt University Brain Blast 2019, Student Volunteer
Mar 2019	School of Science and Mathematics at Vanderbilt, Guest Speaker
Feb 2019, 2020	Vanderbilt University Psychology Interview Weekend, Student Liaison
Feb 2019 to Jun 2019	School of Science and Mathematics at Vanderbilt, Mathematics Tutor

Publications

- In preparation **14** | **Errington, S.P.**, Sajad, A., Logan, G. D., & Schall, J.D. (In preparation). Reward context influences going but not stopping in a saccade countermanding task. *In preparation.*
 - **13** | Thirunavukkarasu, P., **Errington, S.P.**, Sajad, A. & Schall, J.D. (In preparation). Functional architecture of task-related visuomotor responses in Supplementary Eye Field. *In preparation.*
- Under review **12** | **Errington, S. P.**, Westerberg, J.A., Woodman, G. F., & Schall, J.D. (Under review). Cortical Contributions to Medial Frontal β-Bursts during Executive Control.
 - 2023 **11** | Fu, F., Sajad, A., **Errington, S.P.**, Schall, J.D., & Rutishauser U. (2022). Neurophysiological mechanisms of performance monitoring in human and nonhuman primates. *Nature Reviews Neuroscience*. ⁺
 - 2022 **10** | Sajad, A*., **Errington, S. P.***, & Schall, J.D. (2022). Functional architecture of executive control and associated event-related potentials. *Nature Communications*, **13**(1), 1-19.
 - 2021 9 | Mann, L. G., Hay, K. R., Song, A. K., Errington, S. P., Trujillo, P., Zald, D. H., Yan, Y., Kang, H., Logan, G. D., & Claassen, D. O. (2021). D2-Like Receptor Expression in the Hippocampus and Amygdala Informs Performance on the Stop-Signal Task in Parkinson's Disease. *Journal of Neuroscience*, *41*(48), 10023-10030.
 - 2020 **8** | **Errington, S. P.**, Woodman, G. F., & Schall, J.D. (2020). Dissociation of medial frontal β-bursts and executive control. *Journal of Neuroscience*, 40(48), 9272-9282.

7 | Errington, S. P., & Schall, J.D. (2020). Express saccades in a countermanding task. *Journal of Neurophysiology*, 124(1), 484-496.

- 2018 **6** | Tarawneh, G., Nityananda, V., Rosner, R., **Errington, S.**, Herbert, W., Arranz-Paraíso, S., Busby, N., Tampin, J., Read, J. C. A., & Serrano-Pedraza, I. (2018). Contrast thresholds reveal different visual masking functions in humans and praying mantises. *Biology Open*, 7(4), bio029439.
- 2017 5 | Tarawneh, G., Nityananda, V., Rosner, R., Errington, S., Herbert, W., Cumming, B., Read, J. C. A. & Serrano-Pedraza, I. (2017). Invisible noise obscures visible signal in insect motion detection. *Scientific Reports*, 7(1), 3496

4 | Nityananda, V., Tarawneh, G., **Errington, S.,** Serrano-Pedraza, I., & Read, J. C. A. (2017). The optomotor response of the praying mantis is driven predominantly by the central visual field. *Journal of Comparative Physiology A*, 203(1), 77-87.

2015 3 | McNally, R. J., Basta, N. O., Errington, S., James, P. W., Norman, P. D., Hale, J. P., & Pearce, M. S. (2015). Socioeconomic patterning in the incidence and survival of teenage and young adult men aged between 15 and 24 years diagnosed with non–seminoma testicular cancer in northern England. Urologic Oncology: Seminars and Original Investigations, 33(12), 506-509.

2 | Schmidt, K. J., Cowen, P., Harmer, C.J., Tzortzis, G., **Errington, S. P.,** & Burnet, P. W. J. (2015). Prebiotic intake reduces the waking cortisol response and alters emotional bias in healthy volunteers. *Psychopharmacology*, 1(19).

2014 **1** | McNally, R. J., Basta, N. O., **Errington, S.**, James, P. W., Norman, P. D., & Craft, A. W. (2014). Socioeconomic Patterning in the Incidence and Survival of Children and Young People Diagnosed with Malignant Melanoma in Northern England. *Journal of Investigative Dermatology*, 134(11), 2703-2708.

Selected Talks & Presentations

Talks **Errington, S. P.**, Sajad. A., & Schall, J.D. (2022, Mar). *Cortical microcircuitry of executive control*. Talk given at Desrochers Lab, Brown University, online.

Errington, S. P. (2021, Sept). *Neural mechanisms of cognitive control in the primate medial frontal cortex*. Talk given at Monosov Lab, Washington University at St Louis, MO.

Errington, S. P., Woodman. G.F., & Schall, J.D. (2020, Dec). *Cortical contributions to medial frontal* β *-bursts during executive control.* Talk given at Aron Lab, University of California San Diego, Online.

Errington, S. P., Woodman. G.F., & Schall, J.D. (2020, Oct). *Dissociation of medial frontal* β *-bursts and executive control*. Talk given at Cognitive Neurology Lab, University of Iowa, online.

Errington, S. P., Sajad, A., & Schall, J.D. (2019, August). *Cortical microcircuitry of executive control.* Talk given at Newcastle University Neuroscience Seminar Series, Newcastle-upon-Tyne, UK.

Errington, S. P., Sajad, A., & Schall, J.D. (2018, May). *Microcircuitry of visual performance monitoring in the supplementary eye field: Laminar distribution of visual processing under conflict.* Talk given at the Vision Science Society meeting, St Pete Beach, FL.

Posters Sajad, A., **Errington, S. P.,** & Schall, J.D. (2022, November). *Functional characterization of feedback-related negativity and associated sensory event-related potentials in medial frontal cortex*. Poster presented at the Society for Neuroscience annual meeting, San Diego, CA.

Errington, S. P., Sajad, A., & Schall, J.D. (2022, November). Absence of conflict signaling in midcingulate cortex: Neural spiking in macaques during a stop-signal task. Poster presented at the Society for Neuroscience annual meeting, San Diego, CA.

Herrera, B., Sajad, A., **Errington, S. P.,** Schall, J.D., Riera., J. (2022, November). *Cell-specific mechanisms of theta oscillations during error monitoring in medial frontal cortex: Empirical findings and biophysical modeling*. Poster presented at the Society for Neuroscience annual meeting, San Diego, CA.

Herrera, B., Sajad, A., **Errington, S. P.,** Schall, J.D., Riera., J. (2021, November). *Low frequency spike-field coupling for error monitoring in medial frontal cortex: Empirical findings and biophysical modeling.* Poster presented at the Society for Neuroscience annual meeting, Online.

Errington, S. P., & Schall, J.D. (2020, June). *Express saccades during a countermanding task.* Poster presented at the Vision Sciences Society annual meeting, Online.

Errington, S. P., Sajad, A., & Schall, J.D. (2019, October). *Microcircuitry of Agranular Cortex: Multiplexed executive control and performance monitoring signals*. Poster presented at the Society for Neuroscience annual meeting, Chicago, IL.

Errington, S. P., Sajad, A., & Schall, J.D. (2019, July). *Microcircuitry of Executive Control: Cortical microcircuitry of gaze monitoring in the supplementary eye field.* Poster presented at the Gordon Research Conference on Eye Movements, Lewiston, ME.

Errington, S. P., Sajad, A., & Schall, J.D. (2019, May). *Microcircuitry of Executive Control: Cortical microcircuitry of gaze monitoring in the supplementary eye field.* Poster presented at the Vision Science Society meeting, St Pete Beach, FL. **Errington, S. P.,** Sajad, A., & Schall, J.D. (2018, November). *Microcircuitry of Performance Monitoring: Laminar profile of conflict monitoring in the supplementary eye field.* Poster presented at the Society for Neuroscience annual meeting, San Diego, CA.

Errington, S. P., Sajad, A., & Schall, J.D. (2018, October). *Microcircuitry of Performance Monitoring: Laminar profile of conflict monitoring in the supplementary eye field.* Poster presented at the 6th Workshop on Computational Properties of the Prefrontal Cortex, Nashville, TN.

Errington, S. P., Elder, G., Collerton, D., Firbank, M.J., & Taylor, J.P. (2015, December). *Visual hallucinations, attention and visuo-perceptual function in Lewy body dementia*. Poster presented at the International Dementia with Lewy Body Conference, Fort Lauderdale, FL.