

Jean-Paul G. NOEL

updated October 2023

K99/R00 NINDS “Pathway to Independence” Post-Doctoral Fellow, Center for Neural Science, New York University (NYU)
 Researcher, International Brain Lab (IBL)

Contact

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Education

- | | | |
|-------------|---|----------------------------|
| 2008 - 2012 | Gustavus Adolphus College, B.A. (Summa Cum Laude: 3.98/4.00 GPA, top 1%)
Psychology and Neuroscience | |
| 2014 – 2018 | Vanderbilt University, Ph.D.
Neuroscience | (Mentor: Dr. Mark Wallace) |

Academic Appointments

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|----------------|---|---|
| 2012 - 2014 | Swiss National Institute for Technology, EPFL
Fulbright Research Scholar | (Mentors: Dr. Andrea Serino &
Olaf Blanke) |
| 2019 - present | New York University & International Brain Lab
Post-Doctoral Fellow/K99 Fellow
Center for Neural Science | (Mentor: Dr. Dora Angelaki) |

Industry Appointments

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|------|---|
| 2016 | Oculus VR Research, Facebook (now Meta Reality Labs)
Research Intern |
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Selected Honors, Awards, & Fellowships

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| 2012 | Fulbright Research Scholar
National Institute of International Education (IIE) |
| 2012 | Phi Beta Kappa (Liberal Arts and Sciences Honors Society) |
| 2015 | National Science Foundation (NSF) Graduate Research Fellowship |
| 2016 | APA Early Graduate Student Researcher Award |
| 2017 | Ruth L. Kirschstein National Research Service Award (NRSA) F31
National Institute of Mental Health (NIMH) |
| 2018 | Young Invited Lectures – Universal Acoustical Communication
Tohoku University, Sendai, Japan |
| 2019 | Glushko Dissertation Prize for best dissertation in Cognitive Science, \$10,000 cash prize
Cognitive Science Society (CSS) |
| 2020 | Hanna Gray Fellow Finalist, \$10,000 career development award
Howard Hughes Medical Institute (HHMI) |
| 2023 | K99/R00 Pathway to Independence Award (NINDS) – \$1.08M, 750k to start my own lab. |
| 2023 | Career Development Institute for Psychiatry (University of Pittsburgh) |

Publications

Pre-prints, Submitted, In Press, Under Review, Under Revision

67. **Noel, J-P.**, Balzani, E., Acerbi, L., Benson, J., Louka, M., West, S., International Brain Laboratory, Savin, C. Angeaki, D.E (in prep). A common computational and neural deficit across mouse models of autism.

*66. Findling, C., Hubert, F., International Brain Laboratory, Acerbi, L., [...], **Noel, J-P**, Zador, T., Dayan, P., Pouget. A., (under review). Brain-wide representations of prior information in mouse decision-making. *Nature*.

BioRxiv: <https://www.biorxiv.org/content/10.1101/2023.07.04.547684v1>

*Authorship is partially alphabetical.

*65. International Brain Laboratory, Benson, B., Benson, J., Birman, D., Bonacchi, N., Carandini, M., [...], **Noel, J-P** et al., (under review). A Brain-Wide Map of Neural Activity during Complex Behaviour. *Nature*.

BioRxiv: <https://www.biorxiv.org/content/10.1101/2023.07.04.547681v1>

*Authorship is alphabetical.

64. Biderman, D. Whiteway, M.R., Hurwitz, C., Greenspan, N.R., Lee, R.S. [...] **Noel, J-P.**, [...], Cunningham, J. Sawtell, N.B., Paninski, L. (under review). Lightning Pose: improved animal pose estimation via semi-supervised learning, Bayesian ensembling, and cloud-native open-source tools. *Nature Methods*.

BioRxiv: <https://www.biorxiv.org/content/10.1101/2023.04.28.538703v1>

63. Bertoni, T., **Noel, J-P.**, Bockbrader, M., Colachis, S., Orset, B., Foglia, C., Rezai, A., Panzeri, S., Becchio, C., Blanke, O., Serino, A. (under revision). Pre-movement sensorimotor oscillations shape the sense of agency by gating cortical connectivity. *Nature Communications*

62. **Noel, J-P.**, Balzani, E., Savin, C. Angeaki, D.E. (under review). Adaptive context-invariant beliefs are supported by dynamic reconfiguration of single-unit functional connectivity in pre-frontal cortex. *Nature Communications*

*61. International Brain Laboratory, Banga K., Benson J., Bonacchi N., Buijns S.A., Campbell R., Chapuis G.A., Churchland A.K., Davatolhagh M.F., Lee H.D., Faulkner M., Hu F., Hunterberg J., Khanal A., Krasniak C., Meijer G.T., Miska N.J., Mohammadi Z., **Noel J.P.**, Paninski L., Pan-Vazquez A., Roth N., Schartner M., Socha K., Steinmetz N.A., Svoboda K., Taheri M., Urai A.E., Wells M., West S.J., Whiteway M.R., Winter O., Witten, I.B. (under review). Reproducibility of in-vivo electrophysiological measurements in mice. *Cell*

BioRxiv: <https://www.biorxiv.org/content/10.1101/2022.05.09.491042v4>

*Authorship is alphabetical.

60. **Noel, J-P.**, Bockbrader, M., Colachis, S., Solca, M., Orepic, P., Haggard, P., Rezai, A., Blanke, O., , Serino, A. (under review). Human primary motor cortex indexes the onset of subjective intention in brain-machine-interface mediated actions. *Science Advances*

2023

59. **Noel, J-P.** Bill, J., Ding, H., Vastola, J., DeAngelis, G.C., Angelaki, D.E., Drugowitsch, J. (2023). Causal inference within closed action-perception loops. *Philosophical Transactions B*.

58. **Noel, J-P.**, Angelaki, D.E. (2023). A theory of autism bridging across levels of description. *Trends in Cognitive Science*

57. Balzani, E., **Noel, J-P.**, Herrero-Vidal, P., Angeaki, D.E., Savin, C. (2023). A probabilistic framework for task-aligned intra- and inter-area neural manifold estimation. *ICRL (top 3 Machine Learning Conference)*.

2022

56. Maisson, D., Wikenheiser, A., **Noel, J-P.**, Keinath, A. (2022). Making sense of the multiplicity of navigational codes in the brain. *Journal of Neuroscience*, 42 (45): 8450-8459.

55. **Noel, J-P***, Balzani*, E., Avila, E., Bruni, S., Aefantis, P., Savin, C., Angelaki, D.E. (2022). Coding of latent variables in sensory, parietal, and frontal cortices during closed-loop virtual navigation. *Elife*, 11, e80280

Press: https://www.simonsfoundation.org/2022/02/23/in-foraging-tasks-new-opportunities-to-study-the-brains-complexity/?mc_cid=29124e83b0&mc_eid=140240ce2c

54. Straka, Z., **Noel, J-P.**, Hoffmann, M. (2022). A normative model of peripersonal space as impact prediction. *PLoS Computational Biology* ;18(9):e1010464. doi: 10.1371/journal.pcbi.1010464

53. **Noel, J-P.**, Shivkumar, S., Dokka, K., Haefner, R., Angelaki, D.E. (2022). Aberrant causal inference and presence of a compensatory mechanism in Autism Spectrum Disorder. *Elife*, e71866

52. Aefantis, P., Lakshminarasimhan, K., Avila, E., **Noel, J-P.**, Pitkow, X., Angelaki, D.E. (2022). Sensory evidence accumulation using optic flow in a naturalistic navigation task. *Journal of Neuroscience*, 43 (37): 5451 - 5462

51. **Noel, J-P.**, Angelaki, D.E. (2022). Human, Systems, and Computational Neurosciences of the Self in Motion. *Annual Review in Psychology*, 73, 103

2021

50. Whiteway, M.R., Biderman, D., Friedman, Y., Dipoppa, M., Buchanan, E.K., Wu, A., Zhou, J., **Noel, J-P.**, International Brain Laboratory, Cunningham, J., Paninski, L. (2021). Partitioning variability in animal behavioral videos using semi-supervised variational autoencoders. *Plos Computational Biology*.

49. **Noel***, **J-P.**, Zhang*, L.Q., Stocker, A.A., Angelaki, D.E (2021). Individuals with autism spectrum disorder have altered visual encoding capacity. *PLoS Biology*, 19 (5), e 3001215

48. **Noel, J-P.**, Caziot, B., Bruni, S., Fitzgerald, N., Avila, E., Angelaki, D. (2021). Supporting Expressive Behavior in Non-Human Primates by Tapping into Structural Knowledge. *Progress in Neurobiology* 101996

47. Ronga, I., Galigani, M., Bruno, V., **Noel, J-P.**, Gazzin, A., Perathoner, C., Serino, A., Garbarini, F. (2021). Spatial tuning of electrophysiological responses to multisensory stimuli reveals a primitive coding of the body boundaries in newborns. *Proceedings of the National Academy of Sciences*, 118 (12), e2024548118

Press: https://www.lescienze.it/news/2021/03/09/news/cervello_neonati_confini_corpo-4902516/?rss

Press: http://www.quotidianosanita.it/scienza-e-farmaci/articolo.php?articolo_id=93303

Press: <https://medicalxpress.com/news/2021-03-neural-mechanism-body-position-space.html>

Press: <https://tq24.sky.it/salute-e-benessere/2021/03/12/neonati-corpo>

46. Masson, C., van der Westhuizen, D., **Noel, J-P.**, Prevost, A., van Honk, J., Fotopoulou, A., Solms, M., Serino, A. (2021). Testosterone administration in women increases the size of their peripersonal space. *Experimental Brain Research*.

45. **Noel, J-P.**, Paredes, R., Terrebone, E., Feldman, J.I., Woynaroski, T., Cascio, C.J., Seriès, P., Wallace, M.T. (2021). Inflexible Updating of the Self-Other Divide During a Social Context in Autism; Psychophysical, Electrophysiological, and Neural Network Modeling Evidence. *Biological Psychiatry CNI*.

*44. International Brain Laboratory, Aguillon-Rodriguez, V., Angelaki, D., Bayer, H.M., Bonacchi, N., Carandini, M., Cazzettes, F., Chapuis, G.A., Churchland, A.K., Dan, Y., Dewitt, E.E., Faulkner, M., Forrest, H., Haetzl, L.M., Hausser, M., Hofer, S.B., Hu, F., Khanal, A., Krasniak, C.S., Laranjeira, I., Mainen, Z.F., Meijer, G.T., Miska, N.J., Mrcic-Flogel, T.D., Murakami, M., **Noel, J-P.**, Pan-Vazquez, A., Sanders, J.I., Socha, K.Z., Terry, R., Urai, A.E., Vergara, H.M., Wells, M.J., Wilson, C.J., Witten, I.B., Wool, L.E., Zador, A. (2021). A standardized and reproducible method to measure decision-making in mice. *Elife*, 10:e63711.

*Authorship is alphabetical.

2020

43. **Noel, J-P.** Bertoni, T., Terrebone, E. Pellenin, E., Herbelin, B., Magosso, E., Blanke, O., Wallace, M., Serino, A. (2020). Rapid recalibration of peri-personal space; behavioral, electrophysiological, and computational evidence. *Cerebral Cortex*, 103

42. **Noel, J-P.** Lakshminarasimhan, K.J., Park, H., Angelaki, D. E. (2020). Increased uncertainty but normal integration during visual navigation in Autism Spectrum Disorder. *Proceedings of the National Academy of Sciences*, 117 (20), 11158-11166

41. Wu, A., Buchanan, E.K., Whiteway, M., Schartner, M., Meijer, G., **Noel, J.P.**, Rodriguez, E., Everett, C., Norovich, A., Schaffer, E., Mishra, N., Salzman, C.D., Angelaki, D., Bendesky, A., Cunningham, J.P., Paninski, L. (2020). Deep Graph Pose: a semi-supervised deep graphical model for improved animal pose tracking. *NeurIPS*, 2020.

40. **Noel, J-P.**, Failla MD, Quinde-Zlibut JM, Williams ZJ, Gerdes M, Tracy JM, Zoltowski AR, Foss-Feig JH, Nichols H, Armstrong K, Heckers SH, Blake RR, Wallace MT, Park S, Cascio CJ. (2020). Visual-tactile multisensory interaction in adults with Autism and Schizophrenia. *Frontiers in Psychiatry*, Oct 23;11:578401

39. van der Stoep, N., Colonus, H., **Noel, J-P.**, Wallace, M., Diederich, A. (2020). Audiovisual integration in depth: modeling the effect of distance and stimulus effectiveness using the TWIN model. *Journal of Mathematical Psychology*

2019

38. **Noel, J-P.** & Serino, A. (2019). High Action Values Occur Near our Body. *Trends in Cognitive Science*

37. **Noel, J-P.**, Faivre, N., Magosso, E., Blanke, O., Alais, D., Wallace, M. (2019). Multisensory perceptual awareness: Categorical or graded? *Cortex*, 120, 169-180

36. **Noel, J-P.**, Chatelle, C., Perdakis, S., Jöhr, J., Lopes Da Silva, M., Ryvlin, P., De Lucia, M., del R. Millán, J., Diserens, K., Serino, A., (2019). Peri-personal space encoding in patients with disorders of consciousness and cognitive-motor dissociation. *NeuroImage: Clinical*

35. **Noel, J.P.**, Ishizawa, Y., Patel, S., Eskandar, E., Wallace, M. (2019). Leveraging multisensory neurons and circuits in assessing consciousness theory. *Journal of Neuroscience* 39 (38) 7485-7500

Featured Article: <https://www.jneurosci.org/content/39/38/7451>

Commentary: <https://www.jneurosci.org/content/40/10/1994>

2018

34. **Noel, J.P.**, Simon, D., Thelen, A., Maier, A., Blake, R., Wallace, M. (2018). Probing electrophysiological indices of perceptual awareness across unisensory and multisensory modalities. *Journal of Cognitive Neuroscience* https://doi.org/10.1162/jocn_a_01247

33. **Noel, J.P.**, Blanke, O., Magosso, E. Serino, A. (2018). Neural Adaptation Accounts for the Resizing of Peri-Personal Space Representation: Evidence from a Psychophysical-Computational Approach. *Journal of Neurophysiology*. <https://doi.org/10.1152/jn.00652.2017>

32. **Noel, J.P.**, Park, H., Pasqualini I., Lissek, H., Wallace, M. Blanke, O., Serino A (2018). Audio-visual sensory deprivation degrades visuo-tactile peri-personal space. *Consciousness and Cognition*, 61, 61-75. DOI: [10.1016/j.concog.2018.04.001](https://doi.org/10.1016/j.concog.2018.04.001)

31. Pfeiffer, C., **Noel, J.P.**, Blanke, O., Serino, A. (2018). Vestibular modulation of peri-personal space boundaries. *European Journal of Neuroscience*, 47, 800-811, doi:10.1111/ejn.13872

30. **Noel, J.P.**, Modi, K., Wallace, M., Van der Stoep, N. (2018). Audiovisual integration in depth: multisensory binding and gain as a function of distance. *Experimental Brain Research*. 236(7):1939-1951. doi: 10.1007/s00221-018-5274-7

29. **Noel, J.P.**, Stevenson, R., Wallace, M. (2018). Atypical audiovisual temporal function in autism and schizophrenia: a similar phenotype, different cause. *European Journal of Neuroscience*. doi:10.1111/ejn.13911

28. Bernasconi, F., **Noel, J.P.**, Park, H.D., Faivre, N., Seeck, M., Spinelli, L., Schaller, K., Blanke, O., Serino, A. (2018). Spatio-temporal processing of multisensory peripersonal space in human parietal and temporal cortex: an intracranial EEG study. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhy156>

27. **Noel, J.P.**, Blanke, O., Serino, A. (2018). From multisensory integration in peripersonal space to bodily self-consciousness: From statistical regularities to statistical inference. *Annals of the New York Academy of Science*. DOI: <https://doi.org/10.1111/nyas.13867>

26. **Noel, J.P.** (2018). Supra-optimality may emanate from sub-optimality and hence optimality is no benchmark in multisensory integration. *Behavioral and Brain Sciences*. [Commentary on; Rahnev, D., and Denison, R.N. (2018). Suboptimality in Perceptual Decision Making. *Behavioral and Brain Sciences*]

25. **Noel, J.P.**, Serino, A., Wallace, M. (2018). Increased neural strength and reliability to audiovisual stimuli at the boundary of peri-personal space. *Journal of Cognitive Neuroscience*; https://doi.org/10.1162/jocn_a_01334

24. **Noel, J.P.**, Samad, M., Doxon, A., Clark, J., Keller, S., Di Luca, M. (2018). Peri-personal space as a prior in coupling visual and proprioceptive signals. *Scientific Reports* (<https://www.nature.com/articles/s41598-018-33961-3>)

2017

23. **Noel, J.P.**, De Niar, M., Stevenson, R., Alais, D., Wallace, M. (2017). Rapid audio-visual temporal recalibration across stimuli-complexities in Autism Spectrum Disorders. *Autism Research*, 10 (1), 121-129

22. **Noel, J.P.**, Cascio, C., Wallace, M., Park, S. (2017). The spatial self in Schizophrenia and Autism Spectrum Disorder. *Schizophrenia Research*, 170, 8-12

Press: <https://www.psychologytoday.com/blog/the-imprinted-brain/201611/the-diametrics-personal-space-autism-vs-schizophrenia>

21. Stevenson, R., Cochran, C., McIntosh, L., Park, S., **Noel, J.P.**, Barense, M. Ferber, S., Wallace, M.T. (2017). Multisensory temporal processing in Schizophrenia. *Schizophrenia Research*, 179, 97-103

20. **Noel, J.P.**, Blanke, O., Serino A., Salomon, R. (2017). Interplay between narrative and bodily self in access to consciousness: No difference between self- and non-self attributes. *Frontiers in Psychology*, 8.

19. De Niar*, M. A., **Noel***, J. P., & Wallace, M. T. (2017). The Impact of Feedback on the Different Time Courses of Multisensory Temporal Recalibration. *Neural Plast*, 2017, 3478742. doi:10.1155/2017/3478742

18. **Noel, J.P.**, Kurela, L., Baum, S., Yu, H., Neimat, J. Gallagher, M., Wallace, M. (2017). Multisensory temporal function and neural complexity in patients with epilepsy and psychogenic nonepileptic events. *Epilepsy and Behavior*, 70, 166-172

17. Salomon*, R., **Noel***, J.P., Lukowska, M., Faivre, N., Metzinger, T. Serino A*, Blanke, O*. (2017). Unconscious visuo-tactile integration shapes peripersonal space representation and modulates bodily self-consciousness. *Cognition*, 166, 174-183

16. Simon*, D., **Noel***, J.P., Wallace, M. (2017). Event Related Potentials Index Rapid Recalibration to Audiovisual Temporal Asynchrony. *Frontiers in Integrative Neuroscience*, 11

15. **Noel, J.P.**, Lytle, M., Cascio, C., Wallace, M. (2017). Disrupted Integration of Exteroceptive and Interoceptive Signaling in Autism Spectrum Disorder. *Autism Research*, 10.1002/aur.1880

14. Perdakis, S. **Noel, J.P.**, Silva, M., Chatelle, C., Joehr, J., Pincherle, Pignat, J.M., Millan, J., Serino, A., Diserens, K. (2017). EEG Paradigms as a supplemental tool to behavioral assessments of DOC. *Neurologie & Rehabilitation*.

13. Serino, A., **Noel, J-P.**, Mange, R., Canzoneri, E., Pellencin, E., Bello-Ruiz, J., Bernasconi, F., Blanke, O., Herbelin, B. (2017). Peri-personal space: an index of multisensory body-interaction in real, virtual, and mixed realities. *Frontiers in ICT* 4, 31.

12. **Noel, J.P.**, De Niar, M., Lazzara, N., Wallace, M. (2018). Uncoupling between multisensory temporal function and non-verbal turn-taking in Autism Spectrum Disorder. *IEEE Transactions on Cognitive and Developmental Systems*. doi: 10.1109/TCDS.2017.2778141

2016

11. **Noel, J.P.**, Lukowska, M., Wallace, M.T., Serino, A. (2016). Multisensory simultaneity judgment and distance from the body. *Journal of Vision*. 16 (3), 12-21.

10. **Noel, J.P.** & Wallace, M. (2016). Relative Contributions of Visual and Auditory Spatial Representations to Tactile Localization. *Neuropsychologia*, 82: 84-90.

9. **Noel, J.P.**, De Niar, M., van der Burg, E., Wallace, M.T. (2016). Audio-Visual Temporal Acuity and Rapid Recalibration Throughout the Lifespan. *Plos One*, 11 (8), e016198

2015

8. **Noel, J.P.**, Pfeiffer, C., Blanke, O., Serino, A. (2015). Full body peripersonal space as the sphere of the bodily self? *Cognition*, 144 (3), 49-57.

7. Galli, G., **Noel, J. P.**, Canzoneri, E., Blanke, O., & Serino, A. (2015). The wheelchair as a full-body tool extending the peripersonal space. *Front Psychol*, 6, 639. doi:10.3389/fpsyg.2015.00639

6. **Noel, J.P.**, Wallace, M.T., Blake, R. (2015). Cognitive Neuroscience: Integration of Sight and Sound outside of Awareness? *Current Biology*, 25 (4)

5. **Noel, J.P.**, Grivaz, P., Marmaroli, P., Lissek, H., Blanke, O., Serino A (2015). Full body action remapping of peripersonal space: the case of walking. *Neuropsychologia*. doi: 10.1016/j.neuropsychologia.2014.08.030.

4. **Noel, J.P.**, Wallace, M.T., Orchard-Mills, E., Alais, D., Van der Burg, E. (2015). True and perceived synchrony are preferentially associated with particular sensory pairings. *Scientific Reports*, 5, 17467

3. Serino, A., **Noel, J. P.**, Galli, G., Canzoneri, E., Marmaroli, P., Lissek, H., & Blanke, O. (2015). Body part-centered and full body-centered peripersonal space representations. *Scientific Reports*, 5, 18603. doi:10.1038/srep18603

2014

2. **Noel, J.P.**, Thelen, A. (2014). Cross-modal and Multisensory Training May Distinctively Shape Restored Senses. *Frontiers in Neuroscience*, 8 (450), doi: 10.3389/fnins.2014.00450.

1. **Noel, J.P.**, Giovagnoli, G., Costa, M., Serino, A. (2014). I feel what you feel if I like you: The effect of attractiveness on visual remapping of touch. *Multisensory Research*, 14 (27), 43-54.

Peer-Reviewed Book Chapters:

1. **Noel, J-P.**, Bertoni, T., Serino, A. (2021). Peri-personal space as an interface for self-environment interactions; a critical evaluation and look ahead. In: *The world at our fingertips* (Oxford University Press). Editors: de Vignemont, F., Serino, A., Yu, H., Farne, A.

Invited Talks

March	2017	CNBI lab meeting, Center for Neuroprosthetics, Geneva, Switzerland
October	2018	Universal Acoustical Communication, Tohoku University, Sendai, Japan
October	2018	Learning Body Models: Humans, Brains, and Robots, Lorentz Center, Leiden, Netherlands
November	2018	Advances in Motor Learning and Motor Control, San Diego, USA
November	2018	Embassy of Switzerland in the United States, Washington, DC, USA
November	2018	New York University Medical School, Host: Dr. Biyu He Lab
March	2019	Cognitive Science Brown Bag CUNY, Host: Dr. David Rosenthal
March	2019	University of Pennsylvania, Host: Dr. Alan Stocker
March	2019	The Seaver Autism Center for Research and Treatment, Mount Sinai School of Medicine
July	2019	Glushko Symposium, Cognitive Science Society, Montreal, Canada
August	2019	IEEE ICDL-EPIROB 2019, Oslo, Norway
January	2020	Yale University, Department of Psychiatry. Host: Dr. Albert Powers
June	2020	Simons Foundation Autism Research Initiative (SFARI). Host: Alice Clayton (Virtual)
November	2020	Junior Scientist Workshop on Mechanistic Cognitive Neuroscience (Janelia; Virtual)
December	2020	Howard Hughes Medical Institute Leadership (Hanna H Gray Fellowship; Virtual)

January	2021	Cognitive Psychology Colloquium, Leiden University, Netherlands (Virtual)
November	2021	Institute of Psychiatry, Psychology & Neuroscience, Kings College (Virtual)
December	2021	Cognitive Neuroscience Seminar, Vanderbilt University (Virtual)
February	2022	Winter Conference on Brain Research, Snowmass, Colorado
February	2022	Laboratory of Cognitive Neuroscience, Swiss National Institute for Technology (Virtual)
March	2022	International Brain Lab NIH NINDS U19 (Virtual)
April	2022	Center for Visual Science at the University of Rochester (selected by trainee vote)
May	2022	Kennedy Krieger Institute, John Hopkins University (Virtual)
October	2022	Dartmouth Department of Psychological and Brain Sciences (Host: Caroline Robertson)
November	2022	Society for Neuroscience, Mini-Symposium (Organizer: David Maisson; Hayden Lab)
May	2023	Carleton College, Northfield, Minnesota
June	2023	International Multisensory Research Forum, Brussels, Belgium (Symposium + selected talk)
October	2023	FENS The Brain Conference: Structuring knowledge for flexible behavior (invited + travel award)

Grants (as PI)

2015	Autism Science Foundation (ASF) \$ 25, 000	Role: P.I. (declined for NSF GRFP).
2016	National Science Foundation, Graduate Research Opportunity Worldwide (GROW) Visiting Researcher at the University of Sydney with Dr. David Alais \$ 5, 000	
2022	Fund Consciousness Science, Templeton World Charity Foundation \$ 17, 436	
2023	NINDS K99/R00 "Pathway to Independence" \$ 1, 080, 000	

Memberships

2012	Vision Sciences Society (VSS)
2013	Association for the Scientific Study of Consciousness (ASSC)
2015	Society for Neuroscience (SfN)
2016	American Psychological Association (APA)
2016	Association for Psychological Science (APS)
2019	Cognitive Science Society (CSS)
2019	The New York Academy of Sciences

Teaching Experience

2008 – 2012	Spanish and French Language Tutor Gustavus Adolphus College Department of Modern Languages
2010 – 2012	Psychological and Brain Sciences Tutor Gustavus Adolphus College Department of Psychology
2013	FENS-IBRO Imaging Human Brain Structure and Function (Lab Instructor) Geneva-Lausanne
2017	Teaching Assistant – Graduate Level Systems Neuroscience (Fundamentals II) Rating of "Excellent" for 95% of students, average performance score = 4.75/5. Vanderbilt University

- 2017 Certificate in College Teaching – Part I (II total)
Center for Teaching, Vanderbilt University
- 2022 Computational Neurosciences
Masters 2, Lyon Neuroscience Research Center (CRNL)
- 2023 “Multisensory Integration; psychophysics, physiology, computation”
Invited lecture, Carleton College, Minnesota

Thesis Examination

- 2020 External Examiner (Masters), Mr. Adrian Pitonak
Faculty of Electrical Engineering and Cybernetics, Czech Technical University
- 2022 External Examiner (Ph.D.), Ms. Fui Ling Voon
School of Biomedical Sciences, The University of Western Australia

Mentorship (selected)

	Then:	Next:
2015-2017: Marisa Lytle	Research Assistant (Vanderbilt U.)	Graduate Student (Oregon University)
2016-2018: Kahan Modi	Research Assistant (Vanderbilt U.)	Medical Student (Penn State)
2016-2018: Emily Terrebonne	Research Assistant (Vanderbilt U.)	Medical Student (George Washington U.)
2019-2020: Katie Leeke	Research Assistant (NYU)	Medical Student (Brown University)
2019-2022: Julius Benson	Research Assistant (NYU)	Graduate Student, Biophysics (U. of Chicago)
2020-2023: Miranta Louka	Research Assistant (NYU)	Research Assistant, Witten Lab (Princeton)

Ad Hoc Journal Referee (about 6 papers / year, publons.com profile; goo.gl/BMLk7v)

Acta Psychologica
Attention, Perception & Psychophysics (AP&P)
Autism
Autism Research
Behavioural Brain Research
Brain Topography
Brain Sciences
Cognition
Communications Biology
Clinical Psychological Science
Developmental Science
European Journal of Neuroscience
Experimental Brain Research (EBR)
Frontiers in Computational Neuroscience
Frontiers in Human Neuroscience
Frontiers in Psychology
Frontiers in Psychiatry
IEEE Transactions on Cognitive and Developmental Systems
IEEE International Conference on Systems, Man, and Cybernetics
i-Perception
iScience
Journal of Autism and Developmental Disorders
Journal of Cognitive Psychology
Journal of Cognitive Neuroscience
Journal of Experimental Psychology: Learning, Memory, & Cognition
Journal of Experimental Psychology: General
Journal of Mathematical Psychology
Journal of Neurophysiology
Journal of Neuroscience
Journal of Visualized Experiments (JOVE)
Journal of Vision
Multisensory Research

Nature Communications
 NeuroImage
 Neuropsychologia (“Outstanding Reviewer” status)
 Neuroscience & Biobehavioral Reviews
 Neuroscience Letters
 NPJ Science of Learning
 PloS Biology
 PloS ONE
 Proceedings of the National Academy of Sciences (PNAS)
 Psychological Science
 Psychology of Consciousness: Theory, Research, and Practice
 Quarterly Journal of Experimental Psychology
 Research in Autism Spectrum Disorder
 Research in Developmental Disabilities
 Scientific Reports

Journal Editor

Brain Sciences

Ad Hoc Book Referee

Volume on Peripersonal Space, Editors: Drs. de Vignemont, Farnè, Serino, Wu, & Yu.

Conference Referee

Computational and Systems Neuroscience (Cosyne)
 Eurohaptics
 IEEE International Conference on Systems, Man, and Cybernetics

Grants Referee

ERC Starting Grant LS5 Panel
 Fondazione Cassa di Risparmio di Padova e Rovigo - Progetti di Eccellenza 2017
 Czech Science Foundation
 Swiss National Science Foundation
 Del Monte Neuroscience Pilot Grant Program, University of Rochester

Other Professional Activities

2013	Nation-Wide Student Research Showcase Judge Sigma Xi High School Science Competition
2016	Membership Committee (chair of committee since 2018) Association for the Scientific Study of Consciousness (ASSC)
2017	18th International Multisensory Research Forum (IMRF) Local Organizing Committee – Nashville, TN
2017	Curriculum Officer Vanderbilt University
2017	CIFAR’s Winter School for the Neuroscience of Consciousness Canadian Institute for Advanced Research
2018	Summer School in Computational Sensory-Motor Neuroscience (COSMO) University of Minnesota (NSF-Sponsored) Research project winner and invitation to talk at <i>Advances in Motor Learning & Control</i>
2018	Mini-course on Neuropixel Recordings (UCL, Carandini & Harris Lab)
2019	eLife Ambassador
2019	Associate Chair – New Task Working Group, International Brain Lab

2022

Invited, Fund Consciousness Workshop for ECRs
Templeton World Charity Foundation, NIH, NSF

Miscellaneous

Citizenships: American, Mexican, Belgian

Languages: Spanish, French, English fluent; Catalan proficient

Programming: MATLAB, Python, Arduino, Xcode Swift, LUA

Lab Skills: Rodent behavior, husbandry and surgery; Large scale electrophysiology (Neuropixel) and histology; VR/AR;

Psychophysics; M/EEG.

Google Scholar Citations: 2382; h-Index: 27

References

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SNSF Professor, Clinical Neurosciences, University Hospital of Lausanne (CHUV)

Foundation Bertarelli Chair in Cognitive Neuroprosthetics (EPFL)

Head of Neuroscience, MindMaze

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Director Vanderbilt Brain Institute

Professor of Hearing and Speech Sciences, Vanderbilt University

Professor of Psychiatry, Vanderbilt University

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Prof. Olaf Blanke (Fulbright Scholar Advisor)

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Bertarelli Foundation Chair in Cognitive Neuroprosthetics at the Swiss Federal Institute of Technology

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