

Philip Nicholas Tubiolo

Curriculum Vitae

Date of Preparation

April 28, 2026

Personal Data

Philip Nicholas Tubiolo
 Graduate Student
 Department of Biomedical Engineering, Stony Brook University

Email: philip.tubiolo@stonybrook.edu

Born: Long Island, New York
 United States Citizen

ORCID: <https://orcid.org/0000-0003-2151-429X>

Academic Appointments

- Aug 2021 – present *Graduate Research Assistant*
 Cognitive Neuroscience and Psychosis Lab (PI: Jared X. Van Snellenberg), Department of Psychiatry and Behavioral Health, Renaissance School of Medicine at Stony Brook University
- Feb 2019 – Aug 2021 *Undergraduate Research Assistant*
 Cognitive Neuroscience and Psychosis Lab (PI: Jared X. Van Snellenberg), Department of Psychiatry and Behavioral Health, Renaissance School of Medicine at Stony Brook University

Education

- Aug 2021 – present *Doctor of Philosophy in Biomedical Engineering*, Department of Biomedical Engineering, Stony Brook University. *Advisor*: Jared X. Van Snellenberg (*Defended*: 03/05/2026)
- Aug 2021 – May 2024 *Graduate Certificate in Medical Physics (CAMPEP Accredited)*, Department of Biomedical Engineering, Stony Brook University
- Aug 2021 – May 2024 *Master of Science*, Department of Biomedical Engineering, Stony Brook University
- Aug 2017 – May 2021 *Bachelor of Engineering (Magna Cum Laude)*, Department of Biomedical Engineering, Stony Brook University

Honors & Awards

- 2024 *Acceptance into Scholars in Biomedical Sciences Program (NIH Award No. T32GM148331)*, Stony Brook University
- 2020 *Undergraduate Research and Creative Activities (URECA) Researcher of the Month*, Stony Brook University
- 2020 *Undergraduate Research and Creative Activities (URECA) Summer Research Scholarship*, Stony Brook University
- 2020 *Acceptance into the Accelerated BE/MS program*, Department of Biomedical Engineering, Stony Brook University

Brook University
 2017-2020 *Presidential Scholarship, Stony Brook University*
 2019 *Undergraduate Research and Creative Activities (URECA) Travel Grant, Stony Brook University*

Professional Organizations and Societies

Membership in Professional Organizations

2022 – present Member, The American Association of Physicists in Medicine
 2021 – present Member, Society for Neuroscience
 2021 – present Member, Organization for Human Brain Mapping
 2021 – present Member, Tau Beta Pi Engineering Honor Society
 2021 – present Member, Alpha Eta Mu Beta Biomedical Engineering Honor Society

Professional Certifications and Licensure Exams

2023 American Board of Radiology Medical Physics Certification Exam Part 1 (PASSED)

Ad Hoc Journal Review Service

2026 American Journal of Psychiatry
 2025 NeuroImage
 2024 BMC Medical Imaging

Fellowship and Grant Support

Scholars in Biomedical Sciences Grant # T32GM148331 National Institute of General Medical Sciences <i>Tuition/Fee Scholarship and Stipend Support</i> Role: Fellow	8/2024 – 8/2025 Direct Costs: \$28,224
Graduate Assistance in Areas of National Need (GAANN) Grant # P200A210006 U.S. Department of Education <i>Tuition/Fee Scholarship and Stipend Support</i> Role: Recipient	1/2021 – 8/2024 Direct Costs: \$100,075

Educational Contributions

Teaching Assistantships

Spring 2024	<i>Graduate Teaching Assistant, BME 311: Fundamentals of Macro to Molecular Bioimaging, Department of Biomedical Engineering, Stony Brook University. Scope: Approx. 4 contact hours weekly. Learners: 13 undergraduate students.</i>
Spring 2023	<i>Graduate Teaching Assistant, BME 311: Fundamentals of Macro to Molecular Bioimaging, Department of Biomedical Engineering, Stony Brook University. Scope: Approx. 4 contact hours weekly. Learners: 22 undergraduate students.</i>
Spring 2022	<i>Graduate Teaching Assistant, BME 311: Fundamentals of Macro to Molecular Bioimaging, Department of Biomedical Engineering, Stony Brook University. Scope: Approx. 4 contact hours weekly. Learners: Approx. 19 undergraduate students.</i>
Fall 2021	<i>Graduate Teaching Assistant, BME 311: Fundamentals of Macro to Molecular</i>

Bioimaging, Department of Biomedical Engineering, Stony Brook University. Scope: Approx. 4 contact hours weekly. Learners: 29 undergraduate students.

- Spring 2020 *Undergraduate Teaching Assistant*, BME 311: Fundamentals of Macro to Molecular Bioimaging, Department of Biomedical Engineering, Stony Brook University. Scope: Approx. 4 contact hours weekly. Learners: 15 undergraduate students.
- Spring 2019 *Undergraduate Teaching Assistant*, BME 120: Programming Fundamentals in Biomedical Engineering, Department of Biomedical Engineering, Stony Brook University. Scope: Approx. 4 contact hours weekly. Learners: 54 undergraduate students.

Mentored Undergraduate Researchers

**Contributed to peer-reviewed publication ^Contributed to poster presentation and/or published software*

- Spring 2026 – present ^*J. Hazan*. Postgraduate research assistant. Bachelor of Arts in Psychology, Elon University.
- Fall 2025 – present ^*N. Viano*. Undergraduate student, Department of Psychology, Stony Brook University (current).
- Fall 2025 – present *E. Gorimanikonda*. Master of Data Science student, Department of Applied Math and Statistics, Stony Brook University (current).
- Spring 2023 – present ^*S. Lin*. Undergraduate student, Department of Biology, Stony Brook University (current).
- Fall 2024 – present ^*S. Sadar*. Undergraduate student, Department of Biology, Stony Brook University.
- Fall 2024 – present ^*I. Kochar*. Undergraduate student, Department of Psychology, Stony Brook University.
- Spring 2024 – Spring 2025 *E. Chan*. Undergraduate student, Department of Biomedical Engineering, Stony Brook University.
- Fall 2024 – Spring 2025 ^*A. Zhao*. Undergraduate student, Department of Computer Science, Stony Brook University. Current ICG Technology Analyst, Citigroup Inc.
- Fall 2023 – Spring 2024 ^*M. Gupta*. Undergraduate student, Department of Biomedical Engineering, Stony Brook University. Current DO student at NYIT School of Osteopathic Medicine.
- Spring 2023 – Fall 2023 **^D. Pham*. Undergraduate student, Department of Biological Sciences, Cornell University. Current MEng student at Cornell University.
- Spring 2022 – Fall 2023 *M. Arif*. Undergraduate student, Department of Physics and Astronomy, Stony Brook University. Current AI training fellow at Handshake.
- Spring 2022 – Spring 2024 ^*C. York*. Undergraduate student, Departments of Psychology and Music, Stony Brook University. Research Support Specialist, Department of Psychiatry and Behavioral Health, Renaissance School of Medicine at Stony Brook University.

Fall 2021 – Spring 2024

*[^]A. Chan. Undergraduate student, Departments of Applied Mathematics and Statistics, Psychology, and Computer Science, Stony Brook University. Master of Engineering in Computer Science, Cornell Tech. Current Software Engineer, TikTok.

Fall 2021 – Spring 2023

*[^]E. Silver-Frankel. Research Support Specialist, Department of Psychiatry and Behavioral Health, Renaissance School of Medicine at Stony Brook University. Current MD candidate at Albany Medical College.

Publications

*Publications marked with an asterisk indicate first or senior author publications.

Preprints (Submitted for peer review or under revision)

1. *[^]Tubiolo, P. N., [†]Williams, J. C., Gil, R. B., Cassidy, C., Haubold, N. K., Patel, Y., Abeykoon, S. K., Zheng, Z. J., Pham, D. T., Ojeil, N., Bobchin, K., Silver-Frankel, E. B., Perlman, G., Weinstein, J. J., Kellendonk, C., Horga, G., Slifstein, M., Abi-Dargham, A., & Van Snellenberg, J. X. (2025). Translational Evidence for Dopaminergic Rewiring of the Basal Ganglia in Persons with Schizophrenia. *medRxiv*. <https://doi.org/10.1101/2025.03.31.25324962> [†]These authors contributed equally to this work.

Peer-Reviewed Research Publications

1. Williams, J. C., **Tubiolo, P. N.**, Gil, R.B., Zheng, Z. J., Silver-Frankel, E. B., Haubold, N. K., Abeykoon, S. K., Pham, D. T., Ojeil, N., Bobchin, K., Slifstein, M., Weinstein, J.J., Perlman, G., Horga, G., Abi-Dargham, A. & Van Snellenberg, J. X. (2025). Auditory and Visual Thalamocortical Connectivity Alterations in Unmedicated People with Schizophrenia: An Individualized Sensory Thalamic Localization and Resting-State Functional Connectivity Study. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. <https://doi.org/10.1016/j.bpsc.2025.05.016>
2. Hao, H, [†]Williams, J.C., [†]**Tubiolo, P.N.**, Silver-Frankel, E.B., Bauer, K., Luceno, S.R., Chan, A.J., Zheng, Z.J., Bobchin, K.R., Kotov, R., Perlman, G., Conway, A.R.A., & Van Snellenberg, J.X. (2025). The Latent Structure of Working Memory: A Large Sample Factor Model of Working Memory Capacity. *Cognitive, Affective, and Behavioral Neuroscience*. <https://doi.org/10.3758/s13415-025-01310-3>. [†]These authors contributed equally to this work.
3. ***Tubiolo, P.N.**, Williams, J.C. and Van Snellenberg, J.X. (2025), Tale of Two *n*-Backs: Diverging Associations of Dorsolateral Prefrontal Cortex Activation With *n*-Back Task Performance. *Journal of Neuroscience Research*, 103: e70021. <https://doi.org/10.1002/jnr.70021>
4. ***Tubiolo, P. N.**, Williams, J. C., & Van Snellenberg, J. X. (2024). Characterization and Mitigation of a Simultaneous Multi-Slice fMRI Artifact: Multiband Artifact Regression in Simultaneous Slices. *Human brain mapping*, 45(16), e70066. <https://doi.org/10.1002/hbm.70066>
5. Williams, J. C., **Tubiolo, P. N.**, Zheng, Z. J., Silver-Frankel, E. B., Pham, D. T., Haubold, N. K., Abeykoon, S. K., Abi-Dargham, A., Horga, G., & Van Snellenberg, J. X. (2024). Functional localization of the human auditory and visual thalamus using a thalamic localizer functional magnetic resonance imaging task. *Imaging Neuroscience*, 2. https://doi.org/10.1162/imag_a_00360
6. Williams, J. C., Zheng, Z. J., **Tubiolo, P. N.**, Luceno, J. R., Gil, R. B., Girgis, R. R., Slifstein, M., Abi-Dargham, A., & Van Snellenberg, J. X. (2023). Medial prefrontal cortex dysfunction mediates working memory deficits in patients with schizophrenia. *Biological Psychiatry: Global Open Science*. <https://doi.org/10.1016/j.bpsgos.2022.10.003>.

- Williams, J. C., **Tubiolo, P. N.**, Luceno, J. R., & Van Snellenberg, J. X. (2022). Advancing motion denoising of multiband resting-state functional connectivity fMRI data. *NeuroImage*, 249. <https://doi.org/10.1016/j.neuroimage.2022.118907>.

Published Software

- Williams, J. C., **Tubiolo, P. N.**, Nizambad, S., Zheng, Z. J., Silver-Frankel, E. B., Pham, D. T., Haubold, N. K., Abeykoon, S. K., Abi-Dargham, A., Horga, G., & Van Snellenberg, J. X. (2024). Analysis code for the Auditory and Visual Sensory Thalamic Localizer Task [Computer software]. GitHub, <https://github.com/CNaP-Lab/Sensory-Thalamic-Localizer>
- ***Tubiolo, P.N.**, Williams, J. C., Gupta, M., & Van Snellenberg, J. X. (2023). Multiband artifact regression in simultaneous slices (MARSS) [Computer software]. GitHub, <https://github.com/CNaP-Lab/MARSS>
- Williams, J. C., Nguyen, T.N.B., & **Tubiolo, P.N.** (2023) Palm-From-Excel [Computer software]. GitHub, <https://github.com/CNaP-Lab/Palm-From-Excel>
- Williams, J. C., Nizambad, S., Patel, Y., **Tubiolo, P.N.**, Serrano-Sosa, M., Spuhler, K., Van Snellenberg, J. X., & Huang, C. (2022). Toolkit for MIRA LAB striatal segmentation [Computer software]. GitHub, https://github.com/CNaP-Lab/Toolkit_for_MIRA_LAB_Striatial_Segmentation
- Williams, J. C., **Tubiolo, P. N.**, Luceno, J. R., & Van Snellenberg, J. X. (2021). Multiband censoring optimization tool (MCOT) for resting-state functional connectivity analyses [Computer software]. GitHub, <https://github.com/CNaP-Lab/MCOT>

Invited Research Presentations

- Tubiolo, P.N.**, & Van Snellenberg, J.X. (2025). *Topographical Organization of Human Basal Ganglia: Non-Invasive Circuit Mapping Via Functional Connectivity*. Multi-Modal Translation Imaging Laboratory Data Meeting, Renaissance School of Medicine at Stony Brook University.
- Tubiolo, P. N.** (2025). *Characterization and Mitigation of a Simultaneous Multi-Slice fMRI Artifact: Multiband Artifact Regression in Simultaneous Slices*. Biomedical Engineering Research Day, Stony Brook University.
- Tubiolo, P. N.** (2025). *Translational Evidence of Dopaminergic Rewiring of the Basal Ganglia in People with Schizophrenia*. Scholars in Biomedical Sciences Symposium, Stony Brook University.
- Tubiolo, P.N.**, & Serrano-Sosa, M. (2022). *Exploring Brain Regions Involved in Working Memory using Interpretable Deep Learning*. Multi-Modal Translation Imaging Laboratory Data Meeting, Renaissance School of Medicine at Stony Brook University.

Conference Abstracts and Poster Presentations

- †Viano, N., †Hazan, J., York, C., Chabra, Y., Mattera, M., Tanisha, F., Lin, S., **Tubiolo, P.N.**, & Van Snellenberg, J.X. (2026). Data-Driven Characterization of Subclinical Psychosis Phenotypes in Healthy Adults: Initial Links to Working Memory. Poster presented at the Celebration of Undergraduate Research & Creativity, Stony Brook, NY. †These authors contributed equally to this work
- Trepiccione, A., **Tubiolo, P. N.**, Patel, Y., Moeller, S., Jonas, K., Van Snellenberg, J.X., Perlman, G. (2025) Altered Resting-state Network Interactions and Psychotic-like Experiences During Adolescence.

Poster presented at the 54th annual meeting of the Society for Neuroscience, San Diego, CA. November, 2025.

3. †Sadar, S., †Kochar, I., †Lin, S., York, C., **Tubiolo, P. N.**, Williams, J.C., & Van Snellenberg, J.X. (2025). Investigating the Impact of Subclinical Schizotypy on Latent Factors of Working Memory Ability. Poster presented at the Celebration of Undergraduate Research & Creativity, Stony Brook, NY. †These authors contributed equally to this work
4. ***Tubiolo, P. N.**, Williams, J. C., & Van Snellenberg, J. X. (2024). Identification, Characterization, and Mitigation of a Novel Multiband fMRI Signal Artifact. Poster presented at the 30th annual meeting of the Organization for Human Brain Mapping. Seoul, People's Republic of Korea. June 2024.
5. Zhao, T., **Tubiolo, P.N.**, Williams, J.C., Van Snellenberg, J.X., & Huang, C. (2024). An Interpretable Deep Learning Approach for Identifying Working Memory-related Regions in fMRI using Three Large Cohorts. Poster presented at the 32nd annual meeting of The International Society for Magnetic Resonance in Medicine, Singapore.
6. ***Tubiolo P. N.**, Zhao T., Hagan, T. E., Serrano-Sosa, M., Williams, J. C., Huang, C., Van Snellenberg, J. X. (2023) Elucidating Neural Predictors of Working Memory Task Performance Using Interpretable Deep Learning. Poster presented at the 29th annual meeting of the Organization for Human Brain Mapping, Montreal, Quebec, Canada.
7. Zhao T., **Tubiolo P. N.**, Hagan, T. E., Williams, J. C., Van Snellenberg, J. X., Huang, C. (2023) Using Interpretable Deep Learning on Task fMRI Data to Understand Brain Regions Related to Working Memory – A Repeatability Study. Poster presented at the 31st annual meeting of The International Society for Magnetic Resonance in Medicine, Toronto, Ontario, Canada.
8. Chan, A., Carlson, S., York, C., Arif, M., Xiao, E., **Tubiolo, P. N.**, Silver-Frankel, E., Williams, J.C., & Van Snellenberg, J.X. (2023). Internal Consistency of Working Memory Task Measurements. Poster presented at the Celebration of Undergraduate Research & Creativity, Stony Brook, NY.
9. Serrano-Sosa, M., **Tubiolo P. N.**, Hagan, T. E., Williams, J. C., Huang, C., Van Snellenberg, J. X. (2022) Elucidating Brain Networks Subserving Working Memory Task Performance Using Interpretable Deep Learning. Poster presented at the American College of Neuropsychopharmacology (ACNP) 61st Annual Meeting, Phoenix, AZ.
10. Williams, J. C., Zheng, Z. J., **Tubiolo, P. N.**, Luceno, J. R., Gil, R. B., Girgis, R. R., Slifstein, M., Abi-Dargham, A., & Van Snellenberg, J. X. (2022). Medial Prefrontal Cortex Dysfunction Mediates Working Memory Deficits in Patients With Schizophrenia. Poster presented at the American College of Neuropsychopharmacology (ACNP) 61st Annual Meeting, Phoenix, AZ.
11. ***Tubiolo, P. N.**, Williams, J. C., Luceno, J. R., & Van Snellenberg, J. X. (2022) Mitigation and characterization of a multiband fMRI artifact in simultaneously acquired slices. Poster presented at the 28th annual meeting of the Organization for Human Brain Mapping, Glasgow, Scotland.
12. Williams, J. C., Zheng, Z. J., Luceno, J. R., **Tubiolo, P. N.**, Gil, R. B., Girgis, R. R., Lieberman, J. A., Slifstein, M., Abi-Dargham, A., & Van Snellenberg, J. X. (2022). Medial Prefrontal Cortex Dysfunction Mediates Working Memory Deficits in Schizophrenia. Poster presented at the 28th annual meeting of the Organization for Human Brain Mapping, Glasgow, Scotland.

13. Williams, J. C., Zheng, Z. J., Luceno, J. R., **Tubiolo, P. N.**, Gil, R. B., Girgis, R. R., Lieberman, J. A., Abi-Dargham, A., & Van Snellenberg, J. X. (2021). Medial prefrontal cortex dysfunction mediates working memory deficits in schizophrenia. Poster presented at the 50th annual meeting of the Society for Neuroscience, Virtual Conference.
14. ***Tubiolo, P. N.**, Williams, J. C., Luceno, J. R., & Van Snellenberg, J. X. (2021). Identification and characterization of a simultaneous multi-slice (multiband) fMRI signal artifact in simultaneously acquired slices. Poster presented at the 50th annual meeting of the Society for Neuroscience, Virtual Conference.
15. ***Tubiolo, P. N.**, Williams, J. C., Luceno, J. R., Van Snellenberg, J. X. (2021) Detection and Mitigation of a Simultaneous Multi-Slice (Multiband) fMRI Signal Artifact in Simultaneously Acquired Slices. Poster presented at the Celebration of Undergraduate Research & Creativity, Virtual Conference.
16. ***Tubiolo, P. N.**, Williams, J. C., & Van Snellenberg, J. X. (2020). Comprehensive evaluation of benchmarks for motion artifact removal in multiband resting-state fMRI. Poster presented at the Annual Meeting of the Biomedical Engineering Society, Virtual Conference.
17. ***Tubiolo, P. N.**, Zheng, Z. J., Eichert, A., Williams, J. C., Silver-Frankel, E., Luceno, J. R., Boccasini, W., Bobchin, K., Van Snellenberg, J. X. (2020) Identifying Neural Correlates of Working Memory Impairments in Schizophrenia through fMRI. Poster presented at the Celebration of Undergraduate Research & Creativity, Virtual Conference.
18. ***Tubiolo, P.N.**, Zheng, Z. J., Eichert, A., Williams, J. C., Silver-Frankel, E., Luceno, J., Boccasini, W., Bobchin, K., & Van Snellenberg, J. X. (2019). Identifying Neural Correlates of Working Memory Impairments in Schizophrenia through fMRI. Poster presented at the Biomedical Engineering Society Annual Meeting, Philadelphia, PA.
19. Silver-Frankel, E., Zheng, Z. J., **Tubiolo, P.N.**, Espinoza, L., Calder, A., La, K., Piekarz, A., Boccasini, W., Bobchin, K., Williams, J. C., & Van Snellenberg, J. X. (2019). Linear modeling of individual differences in working memory and cognitive performance. Poster presented at the Celebration of Undergraduate Research & Creativity, Stony Brook, NY.