

Anthony G. Chesebro

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EDUCATION

Stony Brook University, Stony Brook, NY

M.D. (anticipated)

May 2027

Ph.D. in Biomedical Engineering

May 2025

Thesis: *Complex Systems and Scientific Machine Learning in Metabolic Neuroscience*

Advisor: Prof. Lilianne R. Mujica-Parodi

Columbia University, New York, NY

B.S. in Biomedical Engineering

May 2018

Senior Project: *OpiRem – a device to detect and treat opioid overdose*

Cumberland County College, Vineland, NJ

A.S. in Engineering

May 2016

A.S. in Computer Science

May 2016

A.S. in Mathematics

May 2016

PEER-REVIEWED ARTICLES

*indicates equal contributions

1. Kuang, Z, **Chesebro, AG**, Strey, SG, Clouston, SAP, Luft, BJ, Mujica-Parodi, LR. Mechanistic signatures of comorbid PTSD with cognitive impairment implicate cortisol-induced neural toxicity. *Neuropsychopharmacology*. (in press).
2. Hofmann, D, **Chesebro, AG**, Rackauckas, C, Mujica-Parodi, LR, Friston, KJ, Edelman, A, Strey, HH. Increasing spectral DCM flexibility and speed by leveraging Julia's ModelingToolkit and automated differentiation. *Imaging Neuroscience*. 2025 Jul 24;3:IMAG.a.88.
3. **Chesebro, AG**, Antal, BB, Weistuch, C, Mujica-Parodi, LR. Challenges and frontiers in computational metabolic psychiatry. *Biol Psychiatry Cogn Neurosci Neuroimaging*. 2025 Mar;10(3):258-266. **Selected as cover article for March 2025.**
4. Antal, BB, van Nieuwenhuizen, H, **Chesebro, AG**, Jones, DT, Clarke, K, Weistuch, C, Ratai, EM, Dill, KA, Mujica-Parodi, LR. Brain aging shows nonlinear transitions, suggesting midlife “critical window” for metabolic intervention. *Proc Natl Acad Sci U S A*. 122 (10) e2416433122.
5. Antal, BB, **Chesebro, AG**, Strey, HH, Mujica-Parodi, LR, Weistuch, C. Achieving Occam's Razor: Deep Learning for Optimal Model Reduction. *PLoS Comput Biol* 20(7): e1012283.
6. van Nieuwenhuizen, H, **Chesebro, AG**, Polizu, C, Clarke, K, Strey, HH, Weistuch, C, Mujica-Parodi, LR. Ketosis regulates K⁺ ion channels, strengthening brain-wide signaling disrupted by age. *Imaging Neuroscience*. 2024 May; 2:1-14.

7. Morris, EP, Turney, IC, Palms, JD, Zaheed, AB, Sol, K, Amarante, E, Beato, J, **Chesebro, AG**, Morales, CD, Manly, JJ, Brickman, AM, & Zahodne, LB. Racial/ethnic differences in the relationship between financial worry and white matter hyperintensities in Latinx, Non-Latinx Black, and Non-Latinx White older adults. *Neurobiol. Aging*. 2023 Sep;129:149-156.
8. **Chesebro, AG**, Mujica-Parodi, LR, Weistuch, C. Ion gradient-driven bifurcations of a multi-scale neuronal model. *Chaos Solitons Fractals*. 2023 Feb; 167:113120.
9. Spagnolo-Allende, A, Schnall, R, Liu, M, Igwe, KC, Laing, KK, **Chesebro, AG**, Brickman, AM, Gutierrez, J. Serum inflammation markers associated with altered white matter microstructure in an older cohort of people with HIV on antiretroviral treatment. *Neurol. Sci*. 2023 Jan; 44:2159-2166.
10. Lao, PJ, Boehme, AK, Morales, C, Laing, KK, **Chesebro, AG**, Igwe, K, Gutierrez, J, Gu, Y, Stern, Y, Schupf, N, Manly, JJ, Mayeux, R, Brickman, AM. Amyloid, cerebrovascular disease, and neurodegeneration biomarkers are associated with cognitive trajectories in a racially and ethnically diverse, community-based sample. *Neurobiol. Aging*. 2022 Sep;117:83-96.
11. Kreisler WC, Lao PJ, Johnson A, Tomljanovic Z, Klein J, Polly K, Maas B, Laing KK, **Chesebro AG**, Igwe K, Razlighi QR, Honig LS, Yan X, Lee S, Mintz A, Luchsinger JA, Stern Y, Devanand DP, Brickman AM. Patterns of tau pathology identified with 18F-MK-6240 PET imaging. *Alzheimers Dement*. 2022 Feb;18(2):272-282.
12. Igwe, KC, Lao, PJ, Vorburger, RS, Banerjee, A, Rivera, A, **Chesebro, AG**, Laing, KK, Manly, JJ, Brickman, AM. Automatic quantification of white matter hyperintensities on T2-weighted fluid attenuated inversion recovery magnetic resonance imaging. *Magn Reson Imaging*. 2022 Jan; 85:71-79.
13. Rizvi B, Lao PJ, **Chesebro AG**, Dworkin JD, Amarante E, Beato JM, Gutierrez J, Zahodne LB, Schupf N, Manly JJ, Mayeux R, Brickman AM. Association of regional white matter hyperintensities with longitudinal Alzheimer-like pattern of neurodegeneration in older adults. *JAMA Netw Open*. 2021 Oct 1;4(10):e2125166.
14. **Chesebro AG**, Amarante E, Lao PJ, Meier IB, Mayeux R, Brickman AM. Automated detection of cerebral microbleeds on T2*-weighted MRI. *Sci Rep*. 2021 Feb 17;11(1):4004.
15. Avila JF, Rentería MA, Jones RN, Vonk JMJ, Turney I, Sol K, Seblova D, Arias F, Hill-Jarrett T, Levy SA, Meyer O, Racine AM, Tom SE, Melrose RJ, Deters K, Medina LD, Carrión CI, Díaz-Santos M, Byrd DR, **Chesebro AG**, Colon J, Igwe KC, Maas B, Brickman AM, Schupf N, Mayeux R, Manly JJ. Education differentially contributes to cognitive reserve across racial/ethnic groups. *Alzheimers Dement*. 2021 Jan;17(1):70-80.
16. Gu Y, Beato JM, Amarante E, **Chesebro AG**, Manly JJ, Schupf N, Mayeux RP, Brickman AM. Assessment of leisure time physical activity and brain health in a multiethnic cohort of older adults. *JAMA Netw Open*. 2020 Nov 2;3(11):e2026506.
17. Turney IC, **Chesebro AG**, Rentería MA, Lao PJ, Beato JM, Schupf N, Mayeux R, Manly JJ, Brickman AM. APOE ϵ 4 and resting-state functional connectivity in racially/ethnically diverse older adults. *Alzheimers Dement (Amst)*. 2020 Sep 22;12(1):e12094.
18. Laing KK, Simoes S, Baena-Caldas GP, Lao PJ, Kothiya M, Igwe KC, **Chesebro AG**, Houck AL, Pedraza L, Hernández AI, Li J, Zimmerman ME, Luchsinger JA, Barone FC, Moreno H,

Brickman AM; Alzheimer's Disease Neuroimaging Initiative. Cerebrovascular disease promotes tau pathology in Alzheimer's disease. *Brain Commun.* 2020 Aug 19;2(2):fcaa132.

19. Domínguez-Vivero C, Wu L, Lee S, Manoochehri M, Cines S, Brickman AM, Rizvi B, **Chesebro AG**, Gazes Y, Fallon E, Lynch T, Heidebrink JL, Paulson H, Goldman JS, Huey E, Cosentino S. Structural Brain Changes in Pre-Clinical FTD MAPT Mutation Carriers. *J Alzheimers Dis.* 2020;75(2):595-606.
20. **Chesebro AG**, Melgarejo JD, Leendertz R, Igwe KC, Lao PJ, Laing KK, Rizvi B, Budge M, Meier IB, Calmon G, Lee JH, Maestre GE, Brickman AM. White matter hyperintensities mediate the association of nocturnal blood pressure with cognition. *Neurology.* 2020 Apr 28;94(17):e1803-e1810.
21. Stamm BC, Lao PJ, Rizvi B, Colon J, Igwe K, **Chesebro AG**, Maas B, Schupf N, Mayeux R, Manly JJ, Brickman AM. Parental History of Dementia Is Associated with Increased Small Vessel Cerebrovascular Disease. *J Gerontol A Biol Sci Med Sci.* 2020 Oct 15;75(11):2156-2161.

Under Review

1. **Chesebro, AG,*** Rohm, LR,* Antal, BB, Weistuch, C, Jones, DT, Strey, HH, Ratai, EM, Mujica-Parodi, LR. Spatially convergent fMRI signatures of diabetes and male sex highlight genetic vulnerabilities to accelerated brain aging. Preprint: doi.org/10.1101/2025.04.14.648801.
2. **Chesebro, AG**, Hofmann, D, Dixit, V, Miller EK, Granger RH, Edelman, A, Rackauckas CV, Mujica-Parodi, LR, Strey, HH. Scientific machine learning for chaotic systems discovers governing equations in neural populations. Preprint: doi.org/10.48550/arXiv.2507.03631.
3. **Chesebro, AG,*** Organtzidis, H,* Kuang, Z, van Nieuwenhuizen, H, Carter, S, Jumana, S, Pathak, A, Brincat, SL, Strey, HH, Miller, EK, Granger, R, Ratai, EM, Mujica-Parodi, LR. Functional dissection of neural circuit activity by novel behavioral task paradigms.

ETHICS AND HUMANITIES PUBLICATIONS

1. Ding, JL, Christophers, B, Rupert, DD, Tang, CY, Serafini, RA, Jansen, S, Curtis, MDE, **Chesebro, AG**, Waldman, AD. How to diversify the dwindling physician-scientist workforce after the US affirmative action ban. *Nat. Med.* (2024). doi.org/10.1038/s41591-023-02787-6.
2. **Chesebro, AG.** *De Profundis*: Oscar Wilde's narrative of mental anguish. *Hektoen Int.* 2022 Winter; 14(1):hekint.org/2022/02/07/de-profundis-oscar-wildes-narrative-of-mental-anguish/.

CONFERENCE PRESENTATIONS

*indicates equal contributions

Paper and Oral Presentations

1. **Chesebro, AG**, Antal, BB, Weistuch, C. (2026, May). Spatial Transcriptomic Analysis Reveals Primary Cancer-Specific Gene Expression Patterns in Brain Metastases. American Association of Neurological Surgeons Annual Meeting.
2. **Chesebro, AG**, Strey, HH. (2025, July). PEM-UDE for neural mass models. Oral presentation at JuliaCon (Annual Conference for Julia Programming Language) 2025.

3. Weistuch, C*, **Chesebro, AG,*** Antal, BB, Mujica-Parodi, LR. (2024, May). Role of metabolism in the emergence of neuropsychiatric disorders. Oral presentation at the Ernst Strüngmann Forum on Metabolic Neuropsychiatry.
4. **Chesebro, AG,** Mujica-Parodi, LR, Weistuch, C. (2023, January). Ion Gradient-driven Bifurcations of a Multi-Scale Neuronal Model. Oral presentation at the Stochastic Physics in Biology Gordon Research Conference.
5. **Chesebro, AG.** (2022, October). The problem of being a multiply conscious cerebral subject. Paper presentation at the Society for Literature, Science, and the Arts Annual Conference.
6. Amarante, E, Andrews, H, **Chesebro, AG,** Sanchez, D, Beato, JM, Schupf, N, Lantigua, R, Manly, JJ, Mayeux, R, Brickman, AM. (2021, February). Are residents of Naturally Occurring Retirement Communities (NORCs) at a decreased risk for developing dementia? Paper presentation at the International Neuropsychological Society Annual Conference.
7. Morris, EP, Turney, IC, Amarante, E, Beato, JM, **Chesebro, AG,** Mayeux, RP, Manly, JJ, Brickman, AM, Zahodne, LB. (2021, February). Racial/Ethnic differences in the relationship between financial worry and white matter hyperintensities in diverse older adults. Paper presentation at the International Neuropsychological Society Annual Conference.
8. Lao, PJ, Turney, IC, Avila, J, Vonk, MJ, Arce Rentería, M, Seblova, D, **Chesebro, AG,** Laing, KK, Beato, JM, Amarante, E, Nieves-Quinones, K, Cabrera, A, Seehra, S, Flores, R, Martinez, M, Fleurimont, J, Gutierrez, J, Schupf, N, Mayeux, RP, Manly, JJ, Brickman, AM. (2021, February). Cognitive performance in middle-aged adult children is related to parental brain health across race/ethnicity groups. Paper presentation at the International Neuropsychological Society Annual Conference.
9. Turney, IC, Lao, PJ, Arce Rentería, M, Laing, KK, Beato, JM, **Chesebro, AG,** Amarante, E, Igwe, K, Schupf, N, Mayeux, R, Manly, JJ, Brickman, AM. (2020, July). Association between race/ethnicity and neuroimaging biomarkers in middle- and older-aged adults. Oral presentation at the Alzheimer's Association International Conference.
10. Turney, IC, Avila, J, **Chesebro, AG,** Lao, PJ, Arce Rentería, M, Gu, Y, Colón, JM, Schupf, N, Mayeux, R, Brickman, AM, Manly, JJ. (2020, February). Sex differences in AD-related neuroimaging biomarkers in racially/ethnically diverse older adults. Paper presentation at the International Neuropsychological Society Annual Conference.
11. Baffour-Addo, K, Turney, IC, Arce Rentería, M, Lao, PJ, **Chesebro, AG,** Colon, J, Igwe, K, Amarante, E, Honig, LS, Schupf, N, Mayeux, R, Brickman, AM, Manly, JJ. (2020, February). Effect of biological versus chronological age on neurodegeneration in racially/ethnically diverse older adults. Paper presentation at the International Neuropsychological Society Annual Conference.
12. Rizvi, B, Abrams, C, Lao, PJ, Igwe, KC, Laing, KK, **Chesebro, AG,** Banerjee, A, Manly, JJ, Brickman, AM. (2020, February). Feeling older than you are: the relationship between subjective age and cortical thickness. Paper presentation at the International Neuropsychological Society Annual Conference.
13. Turney, IC, Arce Rentería, M, **Chesebro, AG,** Colon, JM, Schupf, N, Mayeux, RP, Brickman, AM, Manly, JJ. (2019, November). Childhood SES and age-related brain changes in racially/ethnically diverse older adults. Oral presentation at the Gerontological Society of America Annual Scientific Meeting.

14. Arce Rentería, M, Turney, I, Vonk, JMJ, Lao, P, **Chesebro, AG**, Avila, J, Martinez, M, Brickman, AM, Manly, JJ. (2019, July). The role of illiteracy on Alzheimer's disease cortical signature regions among older adults with low education. Oral presentation at the 89th Meeting of the International Neuropsychological Society.
15. Turney, IC, **Chesebro, AG**, Arce Rentería, M, Lao, PJ, Colon, J, Manly, JJ, Brickman, AM. (2019, July). The association between APOE ϵ 4 and age-related resting state functional connectivity in a community-based sample of racially/ethnically diverse older adults. Oral presentation at the Alzheimer's Association International Conference.
16. **Chesebro, AG**, Arias, JM, Igwe, KC, Lao, PJ, Rizvi, B, Budge, M, Lee, J, Maestre, GE, Brickman, AM. (2019, February). Nocturnal blood pressure dipping and hypertension are associated with white matter hyperintensities and cognition. Paper presentation at the International Neuropsychological Society Annual Conference.

Poster Presentations

1. Gulzar, S, Ha, J, Tayyab, M, Lin, JD, **Chesebro, AG**, Sochan, AJ, Bennett, A, Wong, BJ, Khattri, M, Lopez, A, Pravder, H, Kaplan, C. (2026, April). Assessing Caregiver and Staff Perceptions of Magic Distraction Therapy in the Pediatric Emergency Department. Pediatric Academic Societies Annual Meeting.
2. Lin, JD, Khattri, M, Sochan, AJ, Tayyab, M, Gulzar, S, Ha, J, Lopez, A, **Chesebro, AG**, Wong, BJ, Bennett, A, Pravder, H, Kaplan, C. (2026, April). Determining the Efficacy of Magic Distraction Therapy to Alleviate Pediatric Patient and Caregiver Anxiety in the Emergency Department. Pediatric Academic Societies Annual Meeting.
3. **Chesebro, AG**, Rohm, LR, Antal, BB, Weistuch, C, Jones, DT, Strey, HH, Ratai, EM, Mujica-Parodi, LR. (2026, February). Shared spatial genetic signatures of accelerated functional brain aging in diabetes and male sex. Northeast Neuroscience Research Symposium.
4. **Chesebro, AG**, Hofmann, D, Dixit, V, Miller EK, Granger RH, Edelman, A, Rackauckas CV, Mujica-Parodi, LR, Strey, HH. (2026, February). Discovering Interpretable Neural Population Dynamics with Physics-Informed Machine Learning. Northeast Neuroscience Research Symposium.
5. **Chesebro, AG**, Kuang, Z, van Nieuwenhuizen, H, Strey, HH, Mujica-Parodi, LR. (2025, October). Waves, Networks and Neural Dynamics: How Ketamine's Rhythmic Patterns Masquerade as Circuit Changes. Presented at the American Society of Anesthesiologists Annual Meeting.
6. Ha, J, Sochan, AJ, **Chesebro, AG**, Lopez, A, Wong, BJ, Bennett, A, Pravder, HD, Kaplan, CP. (2025, April). Integrating Magic Therapy as Distraction During Invasive Procedures in a Pediatric Emergency Department. Presented at the Pediatric Academic Societies Annual Meeting.
7. Khattri, M, Bennett, A, Lopez, A, Sochan, AJ, Wong, BJ, **Chesebro, AG**, Pravder, HD, Kaplan, CP. (2025, April). Magic as an Anxiety-Reducing Tool for Children Undergoing Invasive Procedures in the Emergency Department. Presented at the Pediatric Academic Societies Annual Meeting.
8. **Chesebro, AG**, Hofmann, D, Dixit, V, Mujica-Parodi, LR, Strey, HH. (2024, November). Leveraging physics-informed neural networks to extend single neuron models with patch-clamp data. Presented at Spiking Networks as Universal Function Approximators Annual Conference.

9. Strey, HH, **Chesebro, AG**, Hofmann, D, Dixit, V, Mujica-Parodi, LR. (2024, November). Learning novel, sparse neural masses directly from spiking networks using universal differential equations. Presented at Spiking Networks as Universal Function Approximators Annual Conference.
10. van Nieuwenhuizen, H, **Chesebro, AG**, Polizu, C, Clarke, K, Strey, HH, Weistuch, C, Mujica-Parodi, LR. (2023, July). Changes in rsEEG With Age and Metabolism Are Linked to Ion Gradient Dysregulation. Organization for Human Brain Mapping Annual Meeting.
11. **Chesebro, AG**, Mujica-Parodi, LR, Weistuch, C. (2023, March). Multi-scale computational modeling of metabolic deficits in the brain. American Physician-Scientist Association, Annual Northeast Regional Meeting.
12. **Chesebro, AG**. (2022, November). Synergy of aesthetic and ethical conceptualizations of the brain. Presentation at the International Neuroethics Society Annual Conference.
13. **Chesebro, AG**. (2022, November). Critiquing neuroessentialism in patient interactions. Presentation at the International Neuroethics Society Annual Conference.
14. **Chesebro, AG**, Park, K, Liu, Y, Pan, Y, Du, C. (2022, July). Characterizing neurogliovascular unit response to natural sensory input. Presentation at the Annual MD/PhD National Student Conference.
15. **Chesebro, AG**. (2022, March). Centering the cerebral subject in accounts of neurological illness. Presentation at the Annual Medical Student Ethics Conference.
16. **Chesebro, AG**, Laing, KK. (2021, November). Considerations in treating the deeply forgetful cerebral subject. Presentation at the International Neuroethics Society Annual Conference.
17. Ortiz, G, Barger, M, **Chesebro, AG**, Manoochehri, M, Goldman, J, Silverman, HE, Huey, E, Cosentino, S. (2021, February). Frontal default mode network functional connectivity and knowledge of social norms in pre-clinical bvFTD. Presented at the International Neuropsychological Society Annual Conference.
18. Lao, PJ, **Chesebro, AG**, Colon, J, Amarante, E, Igwe, K, Maas, B, Boehme, A, Schupf, N, Manly, JJ, Mayeux, R, Brickman, AM. (2020, July). Relative contribution of white matter hyperintensities to cognitive trajectories above and beyond amyloid and neurodegeneration in a diverse, community-based cohort of older adults. Presented at the Alzheimer's Association International Conference.
19. Rizvi, B, Lao, PJ, **Chesebro, AG**, Igwe, K, Amarante, E, Beato, J, Rivera, A, Schupf, N, Zahodne, LB, Manly, JJ, Mayeux, R, Brickman, AM. (2020, July). Regional white matter hyperintensities predict Alzheimer's-like neurodegeneration. Presented at the Alzheimer's Association International Conference.
20. Igwe, KC, Lao, PJ, Banerjee, A, Laing, K, **Chesebro, AG**, Tejeda, E, Maas, B, Manly, JJ, Brickman, AM. (2020, February). The relationship between hippocampal cerebral blood flow and neurometabolites in middle-aged adults. Presented at the International Neuropsychological Society Annual Conference.
21. Lao PJ, **Chesebro AG**, Colon J, Amarante E, Igwe K, Maas B, Gu Y, Stern Y, Schupf N, Manly JJ, Mayeux R, Brickman AM. (2020, January). Additive contribution of white matter hyperintensity to amyloid and neurodegeneration on cognitive decline in a diverse, community-based cohort of older adults. Presented at the 14th Human Amyloid Imaging Conference.

22. Lao PJ, Laing K, Igwe K, **Chesebro AG**, Kreisl W, Moreno H, Luchsinger J, Brickman AM. (2020, January). White matter hyperintensities are related to tau burden in late-Braak stage regions. Presented at the 14th Human Amyloid Imaging Conference.
23. **Chesebro, AG**, Meier, IB, Manly, JJ, Mayeux, R, Brickman, AM. (2019, October). Automated detection of cerebral microbleeds in predominantly healthy older adults. Presented at the Biomedical Engineering Society National Conference.
24. Igwe, KC, Guo, J, **Chesebro, AG**, Laing, K, Manly, JJ, Brickman, AM. (2019, February). Neurometabolic correlates of white matter hyperintensities and cognition in middle aged adults. Presented at the International Neuropsychological Society Annual Conference.
25. **Chesebro, AG**, Rubin-Falcone, H, Kishon, R, Oquendo, M, Mann, JJ, Miller, J, and Zanderigo, F. (2017, October). Using regression analyses of multimodal brain imaging data to predict change in depression severity following cognitive behavioral therapy. Presented at the Biomedical Engineering Society National Conference.

BOOK CHAPTERS

*indicates equal contributions

1. Weistuch, C,* **Chesebro, AG,*** Antal, B, Mujica-Parodi, LR. 2025. Role of Metabolism in the Emergence of Neuropsychiatric Disorders. In D Öngür & J Ford (Eds.), *Metabolic Psychiatry*. Strüngmann Forum Reports (J R Lupp, series editor), Springer-Nature, Cham.

BOOK CONTRIBUTIONS

1. Contributing Author. Le, T, Bhushan, V, Chalise, A, Rivera, CC, Rogner, J. (eds.). *First Aid for the USMLE Step 1 2025*. New York: McGraw-Hill. (2025).
2. Contributing Author. Le, T, Bhushan, V, Qiu, C, Chalise, A, Kaparaliotis, P (eds.). *First Aid for the USMLE Step 1 2024*. New York: McGraw-Hill. (2024).
3. Associate Author. Le, T, Bhushan, V, Qiu, C, Chalise, A, Kaparaliotis, P (eds.). *First Aid for the USMLE Step 1 2023*. New York: McGraw-Hill. (2023).

PATENTS

1. US Provisional Patent. “Methods for Machine Learning in Chaotic Systems.” Inventors: **Chesebro, AG**, Hofmann, D, Miller EK, Granger RH, Edelman, A, Rackauckas CV, Mujica-Parodi, LR, Strey, HH. Filed June 18, 2025.
2. US Provisional Patent. “Automated Detection of Cerebral Microbleeds Using 3T MRI.” Inventors: Brickman, AM, **Chesebro, AG**. Filed February 8, 2021. (Updated submission for patent – February 16, 2023).

PROFESSIONAL SERVICE

Peer Review – Journals

1. Humanities and Social Science Communications. 2026. (1 manuscript).
2. Proceedings of the JuliaCon Conferences. 2026. (1 manuscript).
3. PNAS Nexus. 2025. (1 manuscript).
4. Scientific Reports. 2024-2026. (3 manuscripts).
5. F1000Research - Chesebro AG. Peer Review Report For: Aging with long-term physical disability: Cohort analysis of survey sample in the U.S. *F1000Research* 2023, **11**:68. Doi: 10.5256/f1000research.159782.r259609.

Peer Review – Conferences

1. Abstract reviewer for JuliaCon Annual Julia Conference (2025).
2. Reviewer for International Neuroethics Society Annual Conference abstract submissions (2022, 2024-2025).
3. Reviewer for International Neuroethics Society essay contest. (2023-2024).

Professional and Institutional Service

Simons STEM Scholars – Final Round Interview Panelist	2024-2026
American Physician Scientists Association (APSA) – National Fundraising Chair	2024-2025
APSA Northeast Regional Meeting – Co-Chair	2025
APSA Stony Brook University – Institutional Representative	2023-2025
Terra NYC STEM High School Fair – Preliminary Round Judge	2019-2026
Final Round Judge	2024-2026
Co-Chair of Statewide-Legislative Advocacy Working Group – Physicians for National Health Program – NY Metro Chapter	2024-2025
Universal Healthcare Legislative Advocacy Fellow – Physicians for National Health Program (NY)	2022-2023
Leadership Education in Neurodevelopmental Disabilities (LEND) AMTT Fellow Stony Brook University	2022-2023
Stony Brook University – MD/PhD Admissions Committee Member	2022-2023
Stony Brook Home Free Clinic – Co-chair of Phlebotomy Team	2021-2022
American Association of Neurological Surgeons (AANS) – Secretary, Stony Brook University student chapter	2021-2022
Stony Brook University Neurosurgery Interest Group – Co-President	2021-2022
MagicAid Stony Brook University Chapter – Secretary, Volunteer Coordinator, and Magic Mentor	2021-2022

SELECTED HONORS AND AWARDS

Foundation for Anesthesia Education and Research – Medical Scientist Training Program (Travel Grant)	Fall 2025
Best Oral Presentation – Laufer Center for Physical and Quantitative Biology Annual Retreat, Stony Brook University	Spring 2025
Excellence in Community Service by a Student – Medical Scientist Training Program, Stony Brook University	Fall 2024
Best Oral Presentation – Faculty Choice, Department of Biomedical Engineering Research Day, Stony Brook University	Fall 2023
Selected Director in Symbiosis – Imagine Science Film Festival	Fall 2022
Outstanding Presentation, Honorable Mention – American Medical Student Ethics Conference	Spring 2022
Top Abstract (published in AJOB Neuroscience) – International Neuroethics Society Conference	Fall 2021

SELECTED RESEARCH EXPERIENCE

- 2022 - 2025 PhD thesis in Laboratory for Computational Neurodiagnostics, Stony Brook University and the Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital
PI: Lilianne Mujica-Parodi, PhD
- 2018 – 2020 Neuroimaging research assistant, Taub Institute for Research on Alzheimer’s Disease and the Aging Brain, Columbia University
PI: Adam M. Brickman, PhD
- 2016 – 2018 Neuroimaging research assistant, Molecular Imaging and Neuropathology Division, New York State Psychiatric Institute
PI: Francesca Zanderigo, PI