CURRICULUM VITAE

J. Adam Noah, PhD

**Version date: 12/13/2021**

**Contact information:**

email: adam.noah@yale.edu

**Education:**

08/1992-05/1996 BA, Biology, West Virginia University, Morgantown, WV

08/1996-05/1998 MS, Biological Sciences, Marshall University, Huntington, WV

08/1998-05/2003 PhD, Biomedical Sciences, Marshall University School of Medicine, Huntington, WV

**Career/Academic Appointments:**

08/2003-05/2007 Post Doctoral Fellow in Neuroscience, University of Alberta, Edmonton, AB, Canada

08/2007-12/2012 Associate Professor, Sport Science Department, School of Health Professions, Long

Island University, Brooklyn, NY. Secondary appointments in: Physical Therapy, School of Health Professions, Media Arts and Biology Departments, Connoly College, Long Island University, Brooklyn, NY

11/2009-12/2012 Research Fellow, fMRI Center Columbia University, New York, New York

1/2013-present Associate Research Scientist, Department of Psychiatry, Yale School of Medicine, New Haven, CT

**Administrative Positions:**

8/2007-12/2012 Technical Director/Engineer, ADAM Center, Long Island University, Brooklyn, NY

**Professional Honors & Recognition:**

**International/National/Regional**

2019 Shimadzu Global Innovation Summit 2019 Excellent Poster Award

2002 SfN Chapters/Eli Lilly Graduate Student Travel Award for Annual Meeting

1996 Beta Beta Beta: National Biological Honor Society

**University**

2002 Anagene Hiener Endowment Award, Outstanding Poster Presentation, Marshall University Research Conference

2000 Anagene Hiener Endowment Award, Outstanding Poster Presentation, Marshall University Research Conference

**Teaching Experience**

**Adjunct Professor**

 Long Island University – Brooklyn Campus (2007-2012)

 Departments of Biology, New Media Performance and Sports Science

* Taught Lectures in Human Anatomy, Neuroscience, Motion Capture for Motion Picture and Video Games, Scientific Writing, and Grantsmanship
* Thesis committee member on multiple Master’s degrees
* MBRS Rise (NSF) Scholar

**Teaching Assistant**

 Marshall University School of Medicine (2000-2003)

 Department of Anatomy, Cell and Neurobiology

* Taught lab tutorials in Histology and Cell Biology
* Taught lectures in Gross Anatomy specific to section on Head and Neck
* Taught lab dissections of lower limb
* Taught lab tutorials in Neuroanatomy (blood supply to the brain)

**Grant/Clinical Trials History:**

***Current Grants***

Agency: National Institutes of Health (NIH)

ID#: R21DC017821

Title: The Impact of Social-Cognitive Processing on Stuttering

P.I.: Eric Jackson, PhD

Role: Key Personnel - Scientist

Percent effort: 20%

Total costs: $84,328

Project period: 04/01/2019 – 03/31/2022

Agency: National Institutes of Health (NIH)

ID#: R01MH119430-01

Title: Mechanisms of Dynamic Neural Coupling during Face-to-Face Expressions of Emotion

P.I.: Joy Hirsch, PhD

Role: Key Personnel - Scientist

Percent effort: 20%

Total costs: $2,033,148

Project period: 03/01/19-12/31/2023

Agency: National Institutes of Health (NIH)

ID#: R37HD090153

Title: Tracking neurocognitive changes during computer-aided reading instruction in typically and atypically developing children

P.I.: Joy Hirsch, PhD

Role: Key Personnel - Scientist

Percent effort: 20%

Total costs: $728,251

Project period: 09/11/17-06/30/2022

Agency: National Institutes of Health (NIH)

ID#: R01MH111629-01

Title: Neural Mechanisms for Social Interactions and Eye Contact in ASD

P.I.: Joy Hirsch, PhD

Role: Key Personnel - Scientist

Percent effort: 20%

Total costs: $3,197,009

Project period: 09/26/16-06/30/2022

Agency: National Institutes of Health (NIH)

ID#: R01MH107513-01

Title: Mechanisms of Interpersonal Social Communication: Dual-Brain fNIRS Investigation

P.I.: Joy Hirsch, PhD

Role: Key Personnel - Scientist

Percent effort: 20%

Total costs: $2,055,827

Project period: 07/01/15-06/30/2021

**Past Grants**

Agency: Long Island University Health and Wellness Institute Grant

Title: Behavioral Economics of Video Game Activity Monitoring.

P.I.: J. Adam Noah, PhD

Role: Principal Investigator

Percent effort: 5%

Total costs: $3,000

Project period: 08/31/2012 – 08/20/2013

Agency: Grants-in-aid for the Scientific Research – Japan Society for the Promotion of Science

Title: **Physical and cognitive video game training effects on body composition, fitness, and brain activity**

P.I.: Atsumichi Tachibana, PhD

Role: Co-investigator

Percent effort: 10%

Total costs: ￥5,000,000 (~$65,000)

Project period: 09/30/2010 – 09/29/2015

Agency: Long Island University Health and Wellness Institute Grant

Title: Dance video game training effects on body composition, fitness, and brain activity in young overweight adults

P.I.: J. Adam Noah, PhD

Role: Principal Investigator

Percent effort: 10%

Total costs: $4,000

Project period: 08/31/2010 – 08/20/2011

Agency: Long Island University Health and Wellness Institute Grant

Title: Effectiveness of virtual training on physical and well-being measures associated with falling

P.I.: J. Adam Noah, PhD

Role: Principal Investigator

Percent effort: 10%

Total costs: $5,000

Project period: 08/31/2010 – 08/20/2011

Agency: NYS - Long Island University Worksite Wellness Grant

Title: Dance Video Game Training Effects on Cognitive, Physical, and Well-being Measures in Healthy Elderly

P.I.: J. Adam Noah, PhD

Role: Principal Investigator

Percent effort: 10%

Total costs: $20,000

Project period: 08/31/2009 – 06/01/2010

Agency: Robert Wood Johnson Foundation Health Games Research: Advancing Effectiveness of Interactive Games for Health

Title: Dance Video Game Training and Falling in Parkinson’s Disease

P.I.: J. Adam Noah, PhD

Role: Principal Investigator

Percent effort: 40%

Total costs: $288,000

Project period: 09/1/2009 – 08/30/2011

Agency: Long Island University Intramural Research Support Program

Title: Effectiveness of virtual training on physical and well-being measures associated with falling.

P.I.: J. Adam Noah, PhD

Role: Principal Investigator

Percent effort: 10%

Total costs: $2,000

Project period: 09/1/2008 – 08/30/2009

Agency: Nike Sports Research Lab

Title: Biomechanics of B-girling

P.I.: Shaw Bronner, PhD

Role: Key Personnel - Scientist

Percent effort: 20%

Total costs: $40,000

Project period: 06/1/2008 – 08/30/2009

Agency: Ruth L. Kirschstein National Research Service Award (NRSA)

I.D.# Postdoctoral Fellowship

Title: Multiple Rhythm Generating Circuitry in the Human Infant

P.I.: J. Adam Noah, PhD

Role: Post-Doctoral Trainee

Percent effort: 100%

Total costs: $150,000

Project period: 09/01/1999 – 08/31/2002

**Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:**

2020 “Dual subject eye tracking during live interactive tasks and hyperscanning”. Tobii Eye Tracking Research Symposium: Autism Across the Human Lifespan, Virtual Conference

2019 “Dynamic Cross-Brain Neural Coupling of Face Processes”. Shimadzu Global Innovation Summit, Kyoto Japan

**Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale:**

 **International/National**

1. Noah, J. A., Ridgel, A. L., Frazier, S. F., Zill, S. N. Load signaling and the rules of leg coordination in cockroaches. Society for Neuroscience, New Orleans, LA. November 2000 (Poster Presentation).
2. Zill, S., Noah, J.A., Quimby, L., Ridgel, A, Neff, D., Frazier, S., Harshbarger, D. Let it Swing: Signals of Decreasing Force and the Cascade of Events Accompanying Leg Lifting in Cockroaches. Society for Neuroscience, San Diego, CA. November 2001 (Poster Presentation).
3. Zill, S. N., Noah, J.A., Quimby, L. Adaptation of Insect Walking to Increases in Load: Sensory Signals in Freely Moving Animals. Society for Neuroscience, Orlando, FL. November 2002 (Poster Presentation).
4. Noah, J.A. Quimby, L. Zill, S.N. Integration of effects of load in pattern generation of insect walking. Society for Neuroscience, Orlando, FL. November 2002 (Poster Presentation).
5. Zill, S. N., Noah, J.A., Quimby, L. Serial homology and load compensation: common sensory-motor mechanisms in cockroach front and hindlegs. Society for Neuroscience, New Orleans, LA. November 2003 (Poster Presentation).
6. Noah, J.A. Patrick, S., Yang, J. Multiple forms of infant locomotion share common features. Society for Neuroscience, Washington, DC. November 2005 (Poster Presentation).
7. Patrick, S., Noah, J.A., Yang, J. Coupling of ipsilateral limbs during quadrupedal locomotion in human infants and adults. Society for Neuroscience, Washington, DC. November 2005 (Poster Presentation).
8. Noah, J. A. and S. Bronner. Dance video game training and falling risks in Parkinson’s disease. Society for Neuroscience. Society for Neuroscience, Chicago, IL. October 2009. (Poster Presentation).
9. Tachibana, A., Noah, J.A., Ono, Y., Onozuka, M. Discrimination of self-generated music versus that of other musicians: An fNIRS study. Society for Neuroscience, Chicago, IL. October 2009. (Poster Presentation).
10. Bronner S, Noah J.A., Tachibana A. (2010). Bi-modal and uni-modal information processing in a complex stepping task. Society for Neuroscience. San Diego, CA, Neuroscience Meeting Planner. Online.
11. Noah J.A., Tachibana A, Bronner S. Neural activity in internally versus externally triggered stepping in an fMRI block design. Society for Neuroscience, San Diego, CA. October 2010. (Poster Presentation).
12. Tachibana A, Noah J.A., Bronner S. Shifts from external to internal attention due to dance video game training: An MR study in functional connectivity of supraspinal neural-circuits. Society for Neuroscience, San Diego, CA. October 2010. (Poster Presentation).
13. Noah J.A., Tachibana A, Bronner S. What can fMRI tell us about video games? Games for Health. Boston, MA. May 2010. (Poster Presentation).
14. Bronner S, Noah J.A., Tachibana A. PD + DDR = BC. Games for Health. Boston, MA. May 2010. (Poster Presentation).
15. Bronner S, Noah J.A., Tachibana A. Shifts in striatum and cerebellum activity with dance video game training. Society for Neuroscience, Washington, DC, October 2011. (Poster Presentation).
16. Noah J.A., Tachibana A, Bronner S. Changes in memory cache allocation with long term training of multimodal parallel processes. Society for Neuroscience, Washington, DC, October 2011. (Poster Presentation).
17. Noah J.A., Tachibana A, Bronner S. (2011). Multi-core processing within the frontal lobe. Proceedings of the 6th International Conference on Foundations of Digital Games, ACM. Bordeaux France, June 2011. (Poster Presentation).
18. Bronner S, Noah J.A., Tachibana A. Sensory-motor processing in a complex stepping task with and without music using fMRI. Annual Meeting, Combined Sections Meeting, Neurology Section, New Orleans, LA, December 2011. (Poster Presentation).
19. Noah J.A., Tachibana A, Bronner S. This is your Brain on Video Games: Novel insights on Dance and Karaoke Games, Neurphyschology, Cognitive Function and Health. Annual Meeting, Games for Health, Boston, MA., May 2011. (Poster Presentation).
20. Noah J.A., Pinsker, R., Bronner S. Implementing neuroplasticity principled training paradigms with rhythmic exer-games for all ages and disease processes. Meaningful Play Conference, East Lansing, MI., October 2011. (Poster Presentation).
21. Gu, J., Noah J.A., Bronner S. Cognitive processing effects of dance video game training in healthy adults. Meaningful Play Conference, East Lansing, MI., October 2011. (Poster Presentation).
22. Naik, R., Noah J.A., Bronner S. Effects of dance video game training on single and dual task reaction times in healthy adults. Meaningful Play Conference, East Lansing, MI., October 2011. (Poster Presentation).
23. Williams-Murray, Z., Bronner S., Noah J.A. Neural feedforward and feedback mechanisms of meaningful game play. Meaningful Play Conference, East Lansing, MI., October 2011. (Poster Presentation).
24. Ono Y, Nomoto Y, Tanaka S, Sato K, Shimada S, Tachibana A, Bronner S, Noah J.A. (2012). Temporal accuracy in dance video game correlates with persistent oxy-hemoglobin activity in the middle temporal gyrus. Society for Neuroscience. New Orleans, LA, October 2012. (Poster Presentation).
25. Tachibana A, Onozuka M, Noah J.A., Bronner S, Ono Y. (2012). Parietal and temporal neural mechanisms with a multimodal exergame. Complex Medical Engineering (CME), 2012 ICME International Conference on, IEEE. Kobe, Japan, August 2012. (Poster Presentation).
26. Nomoto Y, Noah J.A., Tachibana A, Bronner S, Shimada S, Ono Y. Number of temporally accurate steps during dance video game correlates with the activity in the middle temporal gyrus and the frontopolar cortex. Society for Neuroscience. San Diego, CA, November 2013. (Poster Presentation).
27. Suzuki, T., Tachibana, A., Noah, J.A., Ono, Y. Unsuccessful audio-visual integration in middle temporal gyrus leads to a reduction of temporal accuracy of dance steps. Japan Neuroscience. Yokohama, Japan. September 2014. (Poster Presentation).
28. Hirsch, J., Noah, J.A., Zhang, X., Yahil, S., Lapborisuth, P., & Biriotti, M. Neural specialization for interpersonal communication within dorsolateral prefrontal cortex: A NIRS investigation. Society for Neuroscience, Washington, DC, October 2014. (Oral Presentation).
29. Zhang, X., Noah, J.A., Yahil, S., Ono, Y., Hirsch, J. Neural mechanisms for neurofeedback based on EEG using near-infrared spectroscopy (NIRS). Society for Neuroscience, Washington, DC, October 2014. (Poster Presentation).
30. Noah, J.A., Ono, Y., Nomoto, Y., Shimada, S., Tachibana, A., Zhang, X., Bronner, S., Hirsch, J. fNIRS and fMRI signals are concordant during a bipedal motor task. Society for Neuroscience, Washington, DC, October 2014. (Poster Presentation).
31. Yahil, S., Zhang, X., Noah, J.A., Lapborisuth, P., Biriotti, M., Hirsch, J. Neural correlates of conflict during interpersonal communication observed in dorsal lateral prefrontal cortex using NIRS. Society for Neuroscience, Washington, DC, October 2014. (Poster Presentation).
32. Ono, Y., Noah, J.A., Zhang, X., Nomoto, Y., Suzuki, T., Shimada, S., Tachibana, A., Bronner, S., Hirsch, J. Comparison of regression models to evaluate changes in hemodynamic responses through motor training, Organization for Human Brain Mapping, Honolulu, HI, June 2015. (Oral Presentation).
33. Hirsch, J., Noah, J.A., Zhang, X., Yahil, S., Park, J., Rodriguez Moreno, D. Face information is dynamically incorporated into transmission and receptive language processes during interpersonal communication, Society for Neuroscience. Chicago, IL, October 2015. (Oral Presentation).
34. Piva, M., Zhang, X., Noah, J.A., Chang, S., Hirsch, J. Neural specializations for interpersonal interaction in a competitive gambling task. Society for Neuroscience. Chicago, IL, October 2015. (Poster Presentation).
35. Hirsch, J., Noah, J.A., Zhang, X., & Dravida, S. Face and language processes are integrated by a neural hub including the subcentral area. Society for Neuroscience. Washington, DC, October 2016. (Oral Presentation).
36. Rojiani, R., Zhang, X., Noah, J.A., Hirsch, J. Verbal and nonverbal communications convey distinct emotional qualities through shared neural circuitry. Society for Neuroscience. Washington, DC, October 2016. (Poster Presentation).
37. Hirsch, J., Noah, J.A., Zhang, X., Dravida, S., & Tachtsidis, I. Neural correlates of eye-to-eye contact include language and social systems: An fNIRS hyperscanning investigation. 7th Annual Meeting of the Society for Social Neuroscience. Washington, DC, October 2016. (Poster Presentation).
38. Ávila-Sansores, S-M., Rodríguez-Gómez, G., Treviño-Palacios, C. G., Noah, J.A., Zhang, X., Hirsch, J., Orihuela-Espina, F., & Tachtsidis, I. Manifold-based modelling of brain connectivity in fNIRS. Society for fNIRS 2016. Paris, France. October 2016. (Poster Presentation).
39. Hirsch, J., Noah, J.A., Zhang, X., Dravida, S., & Tachtsidis, I. Identification of neural systems involved in interpersonal eye-to-eye contact: An fnirs hyperscanning investigation. 4th Biennial Conference of the Society for fNIRS. Paris, France, October 2016. (Oral Presentation).
40. Noah, J.A., Dravida, S., Zhang, X., & Hirsch, J. Deoxyhemoglobin changes in right lateralized DLPFC represent conflict processing in a color-word Stroop task. 4th Biennial Conference of the Society for fNIRS. Paris, France, October 2016. (Poster Presentation).
41. Zhang, X., Noah, J.A., Dravida, S., & Hirsch, J. A comparison of fMRI and fNIRS deoxyhemoglobin signals: A global component removal approach. 4th Biennial Conference of the Society for fNIRS. Paris, France, October 2016. (Poster Presentation).
42. Dravida, S., Noah, J.A., Zhang, X., & Hirsch, J. Consistency in fNIRS recordings during digit-manipulation tasks. 4th Biennial Conference of the Society for fNIRS. Paris, France, October 2016. (Poster Presentation).
43. Hamilton, A., Pinti, P., Hirsch, J., Noah, J.A., Zhang, X., Gilbert, S.J., Tachtsidis, I. Which is the best Blood-Level-Oxygen-Dependent signal for the identification of functional activation in fNIRS. Mexican Symposium on NIRS Neuroimaging (MexNIRS). Mexico City, Mexico, November 2017. (Poster Presentation).
44. Dravida, S., Noah, J.A., Ono, Y., Zhang, X., Hirsch, J. Multi-modal face-related signals using simultaneous fNIRS and EEG. Society for Neuroscience. Washington, DC, November 2017. (Poster Presentation).
45. Hirsch, J., Zhang, X., Noah, J.A., Dravida, S., Ono, Y., Burgess, P., Hamilton, A., Pinti, P., & Tachtsidis, I. An emerging technical and theoretical framework for two-person communication based on fnirs hyperscanning during speaking and listening. University College London Conference on fNIRS. London, UK, December 2017. (Oral Presentation).
46. Hirsch, J., Zhang, X., Noah, J.A., & Dravida, S. Cross-brain signal coherence: A novel indicator of two-brain social interaction. 8th Annual Meeting of the Society for Social Neuroscience. San Diego, CA, October, 2017. (Oral Presentation).
47. Noah, J.A., Ono, Y., Zhang, X., Dravida, S., & Hirsch, J. Theta oscillations increase during live two-person eye-to-eye contact relative to eye-to-picture gaze. 8th Annual Meeting of the Society for Social Neuroscience. San Diego, CA, October 2017. (Poster Presentation).
48. Zhang, X., Noah, J.A., Dravida, S., Ono, Y., & Hirsch, J. Neural signals for communication of social intentions: Beta wave oscillations distinguish between initiating and terminating eye-to-eye contact. 9th Annual Meeting of the Society for Social Neuroscience. San Diego, CA, October 2017. (Poster Presentation).
49. Descorbeth, O., Zhang, X., Noah, J.A., Dravida, S., & Hirsch, J. A neural substrate for social interactions between dyads with disparate socioeconomic backgrounds. 8th Annual Meeting of the Society for Social Neuroscience. San Diego, CA, October 2017. (Poster Presentation).
50. Noah, J.A., Ono, Y., Zhang, X., Dravida, S., & Hirsch, J. (2017, October). Frontal EEG theta oscillation differences during two-person, live, eye-to-eye contact compared to picture gaze. 48th Annual Meeting of the Society for Neuroscience. Abstract Control number 2017-S-5757-SfN. Poster #620.15/VV21. San Diego, CA, USA.
51. Park, J., Noah, J.A., Zhang, X., Dravida, S., & Hirsch., J. (2017, October). Neural correlates of a smile: An fNIRS investigation. 48th Annual Meeting of the Society for Neuroscience. San Diego, CA, October 2017. (Poster Presentation).
52. Hirsch, J., Zhang, X., Noah, J.A., & Dravida, S. The interactive brain model: An emerging theoretical framework for two-person social communication. 48th Annual Meeting of the Society for Neuroscience. San Diego, CA, October 2017. (Oral Presentation).
53. Descorbeth, O., Zhang, X., Noah, J.A., & Dravida, S., J. & Hirsch, J. Hyperscanning during natural dialogue between two individuals with high socioeconomic disparities. 48th Annual Meeting of the Society for Neuroscience. San Diego, CA, October 2017. (Poster Presentation).
54. Zhang, X., Noah, J.A., Dravida, S., Ono, Y., & Hirsch, J. Beta wave oscillations distinguish between dynamic actions of initiating and terminating eye contact with a real partner. 48th Annual Meeting of the Society for Neuroscience. San Diego, CA, October 2017. (Poster Presentation).
55. Ono, Y., Noah, J.A., Zhang, X., Dravida, S., & Hirsch, J. (2018, June). Multilayer cortical networks revealed by time- and frequency-sliced Granger causality analysis. Proceedings of the 8th International Conference on Electronics, Information, and Emergency Communication (ICEIEC) General Conference. Beijing, China, June 2018 (Oral Presentation).
56. Hirsch, J., Noah, J.A., Zhang, X., Dravida, S., Naples, A., Ono, Y., & McPartland, J. (2018, October). Dynamic cross-brain neural coupling of face processes reflects the transfer of shared face information. 49th Annual Meeting of the Society for Neuroscience. San Diego, CA, November 2018. (Oral Presentation).
57. Suzuki, K., Suzuki, T., Ono, Y., Tachibana, A., Noah, J.A., & Hirsch, J. Enhanced dorsolateral prefrontal activity during exergame played with whole body relative to hand movements. 5th Biennial Conference of the Society for fNIRS. Tokyo, Japan, October 2018. (Poster Presentation).
58. Dravida, S., Ono, Y., Noah, J.A., Zhang, X., & Hirsch, J. Simultaneous EEG and fNIRS: Co-localization of theta band activity and hemodynamic responses to fusiform gyrus during face perception. 5th Biennial Conference of the Society for fNIRS. Tokyo, Japan, October 2018. (Poster Presentation).
59. Noah, J.A., Kelley, M., Dravida, S., Ono, Y., Zhang, X., & Hirsch, J. An fNIRS screening procedure to determine compatibility for neuroimaging. 5th Biennial Conference of the Society for fNIRS. Tokyo, Japan, October 2018. (Poster Presentation).
60. Zhang, X., Noah, J.A., Dravida, S., Ono, Y., & Hirsch, J. (2018, October). Verifying Wavelet coherence analysis on fNIRS data using pseudo-random visual stimulation sequence. 5th Biennial Conference of the Society for fNIRS. Tokyo, Japan, October 2018. (Poster Presentation).
61. Hamilton, A., Pinti, P., Hirsch, J., Zhang, X., Noah, J.A., Gilbert, S., & Tachtsidis, I. Which is the best blood-level-oxygen-dependent signal for the identification of functional activation in fNIRS? 5th Biennial Conference of the Society for fNIRS. Tokyo, Japan, October 2018. (Poster Presentation).
62. Kabdebon, C., Adibpour, P., Jenkins, L., Noah, J.A., Zhang, X., Hirsch, J., & Aslin, R. fNIRS correlates of audio-visual processing in the social brain. 5th Biennial Conference of the Society for fNIRS. Tokyo, Japan, October 2018. (Poster Presentation).
63. Kelley, M., Noah, J.A., Zhang, X., Scassellati, B., & Hirsch, J. Comparison of neural responses during eye-to-eye contact with a human partner and a humanoid robot partner using functional near-infrared spectroscopy (fNIRS). 10th Annual Meeting of the Society for Social Neuroscience. Chicago, IL, October 2019. (Poster Presentation).
64. Dravida, S., Noah, J.A., Zhang, X., & Hirsch, J. Hyperscanning during interactive joint attention reveals co-localization of hemodynamic and EEG theta band activity. 10th Annual Meeting of the Society for Social Neuroscience. Chicago, IL, October 2019. (Poster Presentation).
65. Hirsch, J., Noah, J.A., Zhang, X., Dravida, S., & Kelley, M. Cross-brain neural coupling of fusiform and angular gyri share social cues during real eye contact. 10th Annual Meeting of the Society for Social Neuroscience. Chicago, IL, October 2019. (Oral Presentation).
66. Hirsch, J., Noah, J.A., Zhang, X., Dravida, S., and Kelley, M. A. A two-person neural mechanism for sharing social cues during real eye contact. 50th Annual Meeting of the Society for Neuroscience. Chicago, IL, October 2019. (Nanosymposium).
67. Dravida, S., Noah, J.A., Zhang, X., & Hirsch, J. Co-localization of hemodynamic and theta band activity during interactive joint attention. 50th Annual Meeting of the Society for Neuroscience. Chicago, IL, October 2019. (Oral Presentation).
68. Tanaka K., Dravida, S., Noah, J.A., Zhang, X., Hirsch, J., Matsumoto, N., & Ono, Y. Detection of cortical metabolic network associated with EEG oscillatory activity. 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society in conjunction with the 43rd Annual Conference of the Canadian Medical and Biological Engineering Society. Montréal, Québec, Canada, April 2020. (Poster Presentation).
69. Hirsch, J., Tiede, M., Zhang, X., Noah, J.A. Neural and acoustic characteristics of agreement vs. disagreement in dyadic debate observed using fNIRS hyperscanning. 12th International Seminar on Speech Production (online virtual conference), August 2020. (oral presentation).
70. Parker, T., Zhang, X., Noah, J.A., Hirsch, J. Right inferior prefrontal cortex is related to eye-movement related brain activity during dynamic social interaction. 2020 Black in Neuro Mini-Conference (online virtual conference), October 2020. (Poster Presentation).
71. Buck, T., DiCocco, C., Cuzzocreo, J. L., Noah, J.A., Zhang, X., & Hirsch, J. Neural specialization for social and interactive touch in rTPJ. 51st Meeting of the Society for Neuroscience. Virtual (online) conference, November 2021. (Oral Presentation).
72. Kelley, M., Noah, J.A., Zhang, X., Parker, T., Hirsch, J. Simultaneous fNIRS-EEG reveals theta band differences spatially localized to the supramarginal gyrus during Face-to-face gaze at a human as compared to a robot control. 51st Meeting of the Society for Neuroscience. Virtual (online) conference, November 2021. (Oral Presentation).
73. Parker, T., Zhang, X., Noah, J.A., Kelley, M., Hirsch, J. Neural systems for gaze-cueing are modulated by visual dwell time. 51st Meeting of the Society for Neuroscience. Virtual (online) conference, November 2021. (Oral Presentation).
74. Zhao, N., Zhang, X., Noah, J.A., Tiede, M., Hirsch, J. Face mechanisms differ between gaze at live faces and gaze at webcam faces: Comparisons of eye-tracking, electroencephalography, neuroimaging, and cross-brain coherence between dyads. 51st Meeting of the Society for Neuroscience. Virtual (online) conference, November 2021. (Oral Presentation).
75. Hirsch, J., Bhattacharya, A., Zhang, X., Noah, J.A. Face and emotion-sensing in right temporal parietal junction: A dyadic complex for emotion contagion. 51st Meeting of the Society for Neuroscience. Virtual (online) conference, November 2021. (Oral Presentation).
76. Ono, Y., Zhang, X., Noah, J.A., Dravida, S., & Hirsch, J. Bidirectional connectivity between Broca and Wernicke’s Areas during interactive listening. 51st Meeting of the Society for Neuroscience. Virtual (online) conference, November 2021. (Oral Presentation).
77. Hirsch, J., Bhattacharya, A., Zhang, X., & Noah, J.A. A neural complex for emotion-contagion: An fNIRS hyperscanning investigation. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Oral Presentation).
78. Kelley, M., Noah, J.A., Zhang, X., Parker, T., & Hirsch, J. Processing real faces: Simultaneous fNIRS, EEG, and eye-tracking investigation of supramarginal and angular gyri. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Poster Presentation).
79. Parker, T., Zhang, X., Noah, J.A., Kelley, M., & Hirsch, J. Responses to initiated gaze cueing are modulated by visual dwell time. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Poster Presentation).
80. Buck, T., DiCocco, C., Cuzzocreo, J. L., Noah, J.A., Zhang, X., & Hirsch, J. Cortical specialization for social touch. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Poster Presentation).
81. Zhao, N., Zhang, X., Noah, J.A., Tiede, M., & Hirsch, J.Dissociated face mechanisms for gaze at live faces and at webcam faces: Evidence from eye-tracking, electroencephalography, neuroimaging, and cross-brain coherence. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Poster Presentation).
82. Noah, J.A., Zhang, X., Dravida, S., DiCocco, C., Suzuki, T., Aslin, R. N., Tachtsidis, I., & Hirsch, J. Comparison of short-channel separation and spatial filtering for removal of non-neural components in functional near-infrared spectroscopy signals. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Oral Presentation).
83. Zhang, X., Noah, J.A., & Hirsch, J. Choice of signal and global component removal for fNIRS analysis. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Poster Presentation).
84. Ono, Y., Zhang, X., Noah, J.A., Dravida, S., & Hirsch, J. Detection of hemodynamic directional connectivity with fnirs: Simulation and application to verbal communication network. 6th Biennial Conference of the Society for fNIRS. Virtual (online) conference, October 2021. (Oral Presentation).
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**Professional Service**

***Journals:***

Editorial Boards

2020-present Review Editor, *Frontiers in Human Neuroscience*

Reviewer

*Behavior and Brain Functions, Biophotonics, BMC Sports Science, Brain and Cognition, Brain Structure and Function, Cognitive Processing, Cortex, Defense Technology, Entertainment Computing*

*Frontiers in Human Neuroscience, Frontiers in Psychology, Gait and Posture, Journal of Applied Medicine, Journal of Autism and Developmental Disorders, Journal of Biomedical Optics, Journal of Healthcare Engineering, Journal of Neuroscience Methods, Journal of Science and Medicine in Sport,*

*Journal of Speech, Language and Hearing Research, Medicine & Science in Sports & Exercise, Neuroimage, Neurophotonics, Neuroscience Letters, PLOS One, Prosthetics & Orthotics, Safety Science, Scientific Data, Scientific Reports*

***Professional Organizations:***

Society for Neuroscience

1998-present Member

Society for Neuroethology

1998-present Member

Society for Social Neuroscience

2015-present Member

Society for Near-infrared Spectroscopy

2021-present Member Annual Meeting Committee

2014-present Member

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