KRISTINA T. JOHNSON

CONTACT INFORMATION

Northeastern University
Interdisciplinary Science & Engineering Complex, Rm 527
Boston, MA 02115

(260) 242-0211
kri.johnson@northeastern.edu
kristina.t.johnson@gmail.com

EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
Ph.D. Media Arts & Sciences (Affective Computing) — September 2021
Thesis: *Foundations of Cognitive, Affective, & Communicative Systems for Neurodiverse Individuals*

University of Maryland — College Park, MD
M.S. Physics — May 2010
Thesis: *Visualization of the Vortex Lattice Dynamics in Superfluid Helium*

Dickinson College — Carlisle, PA
B.S. Physics with Honors, Phi Beta Kappa, & Summa Cum Laude — May 2008
Minors: Mathematics, Astronomy
Thesis: *Exploration of the Coupling Oscillation in a Plasma Hall Thruster*

HONORS & DISTINCTIONS

Harvard
- Inaugural Rosamund Stone Zander Translational Neuroscience Center Postdoctoral Fellow
- Competitively Selected for Genetics & Neurobiology of Language (Cold Springs Harbor Laboratory)

MIT
- Hugh Hampton Young Fellow (2x)
- Learning Innovation Fellow (3x)
- Media Lab Space Exploration Initiative Inaugural Zero Gravity Flight Researcher
- McGovern Institute for Brain Research Story Slam Competition Winner

National
- Barry M. Goldwater Scholar (National scholarship competition for STEM research)
- Phi Beta Kappa (Academic Honor Society)
- Sigma Pi Sigma (Physics Honor Society)

University of Maryland
- Graduate Research Spotlight Competition Champion
- Distinguished Teaching Award Recipient
- Institute of Research in Electronics & Applied Physics (IREAP) Grant Recipient
- Physics Doctoral Program Grant Recipient (Full-tuition and living stipend)
- Research Award Winner for NSF REU Internship

Dickinson College
- John Dickinson Scholar (Top merit-based scholarship)
- Engage the World Fellow
- Dept. of Physics Distinguished Teaching Award Recipient (2x)
- Dean's List (7x)

RESEARCH EXPERIENCE

Northeastern University — Boston, MA
Assistant Professor — August 2023 – Present
Electrical & Computer Engineering, College of Engineering
Communication Sciences & Disorders, Bouvé College of Health Sciences

Harvard Medical School — Boston, MA
Rosamund Stone Zander Postdoctoral Fellow (with Mustafa Sahin) — Sept 2021 – August 2023
Boston Children's Hospital, Translational Neuroscience Center

Massachusetts Institute of Technology — Cambridge, MA
Graduate Research Assistant (with Rosalind Picard) — June 2015 – August 2021
MIT Media Lab, Affective Computing Group

Northeastern University — Boston, MA
Research Associate (with Matthew Goodwin) — May 2014 – March 2015
Computational Behavioral Science Lab

University of Maryland — College Park, MD
Graduate Research Assistant (with Daniel Lathrop) — Aug 2008 – June 2010
Nonlinear Dynamics Lab

Dickinson College — Carlisle, PA
Undergraduate Research Assistant (with Hans Pfister) — Aug 2007 – May 2008
Plasma Physics Lab

University of Maryland — College Park, MD
Undergraduate Research Intern (with John Rodgers) — May – Aug 2006
Institute for Research in Electronics and Applied Physics

TEACHING EXPERIENCE

Northeastern University
Asst. Professor, Dept. of Electrical & Computer Engineering — Boston, MA
EECE 2750: Enabling Engineering — January 2024 - Present

Massachusetts Institute of Technology — Cambridge, MA
Graduate Teaching Assistant, MIT Media Lab — February 2018 – May 2018
MAS.771: Autism Theory & Technology

Santa Barbara City College — Santa Barbara, CA
Adjunct Faculty, Department of Earth & Planetary Sciences — Jan 2013 – May 2013
ERTH.102: Astronomy Lab

University of Maryland — College Park, MD
Graduate Teaching Assistant, Department of Physics — Jan 2010 – May 2010
PHYS.105: Physics for Decision Makers (Distinguished TA Award)

Dickinson College — Carlisle, PA
Undergraduate Teaching Assistant, Department of Physics & Astronomy — Jan 2005 – May 2008
ASTR.109 & 110: Introductory Astronomy (Distinguished TA Award)

PHYS.131 & 132: Introductory Physics (Distinguished TA Award)

PEER-REVIEWED PAPERS

Complete list of citations available here: **https://scholar.google.com/citations?user=xGnBBpQAAAAJ**

McGonigle, E., Vandam, M., Wilkinson, C., **Johnson, K.T.** (2024, accepted). Benchmarking Automatic Speech Recognition Technology for Natural Language Samples of Children With and Without Developmental Delays. Accepted to *IEEE Engineering in Medicine and Biology (EMBC).* (underline denotes student mentees)

Levy, T., Gluckman, J., Siper, P., Halpern, D., Zweifach, J., Filip-Dhima, R., Holder Jr., J.L., Pilar Trelles, M., **Johnson, K.T.**, Bernstein, J.A., Berry-Kravis, E., Powell, C.M., Soorya, L.V., Thurm, A., Buxbaum, J.D., Sahin, M., Kolevzon, A., and Srivastava, S. on behalf of the Developmental Synaptopathies Consortium. (2024, accepted). Clinical, Genetic, and Cognitive Correlates of Seizure Occurrences in Phelan-McDermid Syndrome. Accepted to *Journal of Neurodevelopmental Disorders*.

Talker, T., **Johnson, K.T.**, Narain, J., Maes, P., Picard, R.W., Quatieri, T. (2024). Brief Report: Quantifying Speech Production Coordination from Non-and Minimally-Speaking Individuals. *Journal of Autism and Developmental Disorders*, 1-15. https://doi.org/10.1007/s10803-023-06206-0

Girolamo, T., Butler, L.K., Ghali, S., **Johnson, K.T.** (2023). Where is Community Involvement in Open Science? A Commentary on "(Why) Are Open Research Practices the Future for the Study of Language Learning?". *Language Learning.* http://doi.org/10.1111/lang.12574

Johnson, K.T.* & Narain, J.*, Quatieri, T., Maes, P., Picard R.W. (2023). ReCANVo: A Database of Real-World Communicative and Affective Nonverbal Vocalizations. *Scientific Data,* 10(1), 523. https://www.nature.com/articles/s41597-023-02405-7 **(*Co-first authors/equal contribution)**

Johnson, K.T., O'Brien, A.M., Kershenbaum, A., Narain, J., Radhakrishnan, S., Picard, R.W. (2022). Affective Ratings of Nonverbal Vocalizations Produced by Minimally-Speaking Individuals: What Do Naive Listeners Perceive?. In *Proceedings of the International Conference on Affective Computing and Intelligent Interaction (ACII)*, pp. 1-8. https://doi.org/10.1109/ACII55700.2022.9953820 (underline denotes student mentees)

Narain, J., **Johnson, K. T.,** Quatieri, T. F., Picard, R. W., & Maes, P. (2022). Modeling Real-World Affective and Communicative Nonverbal Vocalizations from Minimally Speaking Individuals. *IEEE Transactions on Affective Computing*, 13(4), 2238-2253. https://doi.org/10.1109/TAFFC.2022.3208233

Narain, J., **Johnson, K.T.,** Quatieri, T., Picard R.W., Maes, P. (2021) Transfer Learning with Real-World Nonverbal Vocalizations from Minimally Speaking Individuals. *Workshop in Interpretable ML in Healthcare at International Conference on Machine Learning (ICML).*

Johnson, K.T. & Picard, R.W. (2020). Advancing Neuroscience through Wearable Devices. *Neuron 108(1), 8-12.* https://doi.org/10.1016/j.neuron.2020.09.030

Narain, J.*, **Johnson, K.T.***, Ferguson, C., O'Brien, A.M., Talkar, T., Zhang, Y., Wofford, P., Quatieri, T., Maes, P., Picard, R.W. (2020). Personalized Modeling of Real-World Vocalizations from Nonverbal Individuals. In *Proceedings of the International Conference on Multimodal Interactions (ICMI),* pp. 665-669. https://doi.org/10.1145/3382507.3418854 **(*Co-first authors/equal contribution)**

Narain, J.*, **Johnson, K.T.***, O'Brien, A.M., Wofford, P., Maes, P., Picard, R.W. (2020). Nonverbal Vocalizations as Speech: Characterizing Natural-Environment Audio from Nonverbal Individuals with Autism. In *Proceedings of the International Workshop on Laughter and Non-verbal Vocalisations.* https://doi.org/10.4119/lw2020-923 **(*Co-first authors/equal contribution)** (underline denotes student mentees)

Johnson, K.T.*, Narain, J.*, Ferguson, C., Picard, R.W., Maes, P. (2020). The ECHOS Platform to Enhance Communication for Nonverbal Children with Autism: A Case Study. In *Proceedings of the Conference on Human Factors in Computing Systems (CHI),* pp. 1-8. https://doi.org/10.1145/3334480.3375206 **(*Co-first authors/equal contribution)**

Narain, J.*, **Johnson, K.T.*,** Picard, R.W., Maes, P. (2019). Zero-Shot Transfer Learning to Enhance Communication for Minimally Verbal Individuals with Autism using Naturalistic Data. In *Neural Information Processing Systems: AI for Social Good Workshop (NeurIPS)*, Vancouver, Canada. **(*Co-first authors/equal contribution)**

Johnson, K.T., Taylor, S., Fedor, S., Jaques, N., Chen, W., Picard, R.W. (2018). Vomit Comet Physiology: Autonomic Changes in Novice Flyers. In *Proceedings of the International Conference of IEEE Engineering in Medicine and Biology Society (EMBC),* pp. 1172-1176. https://doi.org/10.1109/EMBC.2018.8512414

Johnson, K.T. & Picard, R.W. (2017). SPRING: Customizable, Motivation-Driven Technology for Children with Autism or Neurodevelopmental Differences. In *Proceedings of the 2017 Conference on Interaction Design and Children (IDC)*, ACM Press. https://doi.org/10.1145/3078072.3079718

PEER-REVIEWED CONFERENCE ABSTRACTS

Radhakrishnan, S., O'Brien, A.M., Quatieri, T., **Johnson, K.T.** (2024). An exploratory investigation of acoustic features underlying arousal and valence perception of vocalizations from non-speaking individuals. Accepted to *186th Annual Meeting of the Acoustical Society of America,* Ottawa, Canada. (underline denotes student mentees)

Johnson, K.T., McGonigle, E., Arcasoy, E., Iannotti, I., Wilkinson, C. (2024). Developing a new virtual natural communication sampling paradigm for non- and minimally-speaking profoundly autistic individuals. *Meeting on Language in Autism (MoLA),* Durham, North Carolina. (underline denotes student mentees)

Johnson, K.T., Stewart, A., Norberg, M., Wilkinson, C. (2023). Standard Natural Language Sample Transcription Methods Undercount Vocalizations Produced by Minimally-Speaking Individuals. *2023 Conference for the American Speech-Language-Hearing Association (ASHA)*, Boston, Massachusetts. (underline denotes student mentees)

Srivastava, S.*, **Johnson, K.T.***, Levy, T., Farmer, C., Thurm, A., Soorya, L., Filip-Dhima, R., Buxbaum, J.D., Berry-Kravis, E., Bernstein, J.A., Sahin, M., Kolevzon, A., on behalf of the Developmental Synaptopathies Consortium. (2023). Longitudinal Trajectory of Adaptive and Behavioral Outcomes in Phelan-McDermid Syndrome. *55th Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities*, Kansas City, Missouri. **(*Co-first authors/equal contribution)**

Johnson, K.T., O'Brien, A.M., Radhakrishnan, S., Kershenbaum, A., Picard, R.W. (2023). Males and Females Perceive Non-Speech Vocalizations by Minimally-Speaking Individuals Differently. *2023 Meeting on Language in Autism (MoLA)*, Durham, North Carolina. (underline denotes student mentees)

D'Mello, A.* & Olson, H.A.* & **Johnson, K.T. ***, Gabrieli, J. (2022). Personalized neuroimaging sheds insight into the role of motivation in language processing. *14th Annual Meeting of the Society for the Neurobiology of Language (SNL)*, Philadelphia, Pennsylvania. https://www.neurolang.org/presentation/?id=911 **(*Co-first authors/equal contribution)**

[panel chair] Johnson, K.T. (2022). Quantification of Language and Communication in Minimally Verbal Individuals. *International Society for Autism Research (INSAR),* Austin, Texas.

Johnson, K.T., Narain, J., O'Brien, A.M., Kershenbaum, A., Quatieri, T., Picard, R.W. (2022). Phonemic Content of Nonverbal Vocalizations from Individuals with 0-10 Spoken Words. *International Society for Autism Research (INSAR),* Austin, Texas.

Johnson, K.T., Narain, J., O'Brien, A.M., Picard, R.W. (2022). Vocalization and Word Usage from Minimally Verbal Individuals. *International Society for Autism Research (INSAR),* Austin, Texas.

Narain, J., **Johnson, K.T.**, Quatieri, T., Picard, R.W., Maes, P. (2022). Acoustic Features and Models to Classify Communication and Intent of Nonverbal Vocalizations from Minimally Speaking Individuals with Autism. *International Society for Autism Research (INSAR),* Austin, Texas.

Quatieri, T., Talkar, T., **Johnson, K.T.**, Narain, J., Picard, R.W. (2022). Quantifying the Complexity of Vocal Expression Using Articulatory Coordination. *International Society for Autism Research (INSAR),* Austin, Texas.

D'Mello, A.*, Olson, H.A.*, **Johnson, K.T. ***, Gabrieli, J. (2022). Let's Talk about Trains: Personalized Stories about Special Interests Increase Language Network Activation in Children with and without ASD. *International Society for Autism Research (INSAR),* Austin, Texas. **(*Co-first authors/equal contribution)**

Johnson, K.T.*, Narain, J.*, Maes, P., Picard, R.W. (2020). Augmenting Natural Communication in Nonverbal Individuals with Autism. *International Society for Autism Research (INSAR),* Seattle, Washington. https://insar.confex.com/insar/2020/meetingapp.cgi/Paper/35686
(*Co-first authors/equal contribution)

Johnson, K.T., Ferguson, C., Picard, R.W. (2018). Multi-SPRING: Facilitating Social Interaction through a Customizable, Multimodal Learning Platform. *International Society for Autism Research (INSAR),* Rotterdam, Netherlands.
https://insar.confex.com/insar/2018/webprogram/Paper28399.html

Saunders Wilder, O., Sullivan, J., **Johnson, K.T.**, Palumbo, R.V., Cumpanasiou, C., Picard, R.W., Goodwin, M.S. (2018). Dyadic Physiological Interdependence and Social Reciprocity in ASD. *International Society for Autism Research (INSAR),* Rotterdam, Netherlands.
https://insar.confex.com/insar/2018/webprogram/Paper26839.html

Subramanian, S., Barbieri, R., **Johnson, K.T.**, Brown, E. (2018). Characterizing Electrodermal Activity Using Point Processes in Young Children. In *50th Annual Meeting of the Biomedical Engineering Society (BMES)*, Atlanta, Georgia.

Johnson, K.T. & Picard, R.W. (2016). Customizable, Interactive Toy Platform to Enable Motivation-Driven Cognitive and Physical Development in Children Diagnosed with Autism or Developmental Disorders. *International Meeting for Autism Research (IMFAR),* Baltimore, Maryland.
https://insar.confex.com/insar/2016/webprogram/Paper23098.html

Gaff, K.T. & Lathrop, D.P. (2010). Visualization of the Quantized Vortex Lattice Dynamics in ^{4}He. In *Bulletin of the American Physical Society: 63rd Annual Meeting of the Division of Fluid Dynamics (DFD)*, Long Beach, California. https://ui.adsabs.harvard.edu/abs/2010APS..DFD.MN004G

Fonda, E., **Gaff, K.T.**, Paoletti, M.S., Sreenivasan, K.R., Lathrop, D.P. (2010). Visualization of Quantized Vortex Dynamics using Ice Particles. In *Proceedings of the International Symposium on Quantum Fluids and Solids (QFS),* Grenoble, France.

Gaff, K.T., Fonda, E., Paoletti, M.S., Sreenivasan, K.R., Lathrop, D.P. (2009). Dynamics of the Lattice Array Formation in Superfluid Helium. In *Bulletin of the American Physical Society: 62nd Annual Meeting of the Division of Fluid Dynamics (DFD),* Minneapolis, Minnesota.
https://ui.adsabs.harvard.edu/abs/2009APS..DFD.ET003G

Fonda E., **Gaff K.T.**, Paoletti M.S., Sreenivasan K.R., Lathrop D.P. (2009). Visualization of Quantized Vortices Near the λ-Transition using Nanoparticles. In *Bulletin of the American Physical Society: 62nd Annual Meeting of the Division of Fluid Dynamics (DFD),* Minneapolis, Minnesota.
http://meetings.aps.org/link/BAPS.2009.DFD.ET.4

Pfister, H., **Gaff, K.T.**, Brannon, S. (2008). Verification of the Coupling Oscillation in a Hall Thruster. In *Bulletin of the American Physical Society: 50th Annual Meeting of the Division of Plasma Physics* (DPP), Dallas, Texas. http://meetings.aps.org/link/BAPS.2008.DPP.YP6.78

Gaff, K.T. & Rodgers, J.C. (2007). Detection of Coherent Phase Modulation in Wideband Chaotic Microwave Signals. *IEEE 34th International Conference on Plasma Science (ICOPS)*, Albuquerque, New Mexico. https://doi.org/10.1109/PPPS.2007.4346123

INVITED BOOK CHAPTERS

Johnson, K.T. (2020). Autism, Neurodiversity, & Curiosity. In Perry Zurn & Arjun Shankar (Eds.), *Curiosity Studies: Toward a New Ecology of Knowledge* (pp. 129-146). University of Minnesota Press. https://doi.org/10.5749/j.ctvzpv67w.12

THESES

Johnson, K.T. (2021) Foundations of Cognitive, Affective, & Communicative Systems for Neurodiverse Individuals. Doctoral Dissertation. Massachusetts Institute of Technology, Cambridge, Massachusetts.

Gaff, K.T. (2010). Visualization of the Vortex Lattice Dynamics in Superfluid Helium. Master of Science Graduate Thesis. University of Maryland, College Park, Maryland. https://drum.lib.umd.edu/handle/1903/11086

Gaff, K.T. (2008). Exploration of the Coupling Oscillation in a Plasma Hall Thruster. Honors Bachelor of Science Thesis. Dickinson College, Carlisle, Pennsylvania. https://scholar.dickinson.edu/student_honors/365

OPEN-ACCESS DATASETS AND APPLICATIONS

Johnson, K.T.* & Narain, J.*, Quatieri, T., Maes, P., Picard R.W. (2021). ReCANVo: A Database of Real-World Communicative and Affective Nonverbal Vocalizations. *Zenodo*. https://doi.org/10.5281/zenodo.5786859. **(*Co-first authors/equal contribution)**

Ferguson, C., **Johnson, K.T.***, Narain, J.* (2021) Commalla (app). *Google Play Store*. https://play.google.com/store/apps/details?id=edu.mit.media.affect.commalla

INVITED PRESENTATIONS & GUEST LECTURES

Technology and Human Values (Philosophy 1145), Guest Lecture | Northeastern	May 2024
AI + Health for Autism, Roux Center | Northeastern	Mar 2024
Introduction to Communication Sciences & Disorders, Guest Lecture | Northeastern	Jan 2024
MIT Sloan Business School, Guest Lecture | MIT	Dec 2023
Augmented Cognition Lab Group Meeting | Northeastern	Nov 2023
NIH TALK Supplement Workshop | NIH (Virtual)	Oct 2023
MIT Media Lab Proseminar, Guest Lecture | MIT	Oct 2023
School of Clinical Rehabilitation Sciences Research Spotlight Series | Northeastern	Oct 2023
College of Engineering Colloquium | Northeastern University	Mar 2023
Brain, Mind, Behavior Seminar | Boston Children's Hospital	Nov 2022
MIT Media Lab Proseminar, Guest Lecture | MIT	Oct 2022
Center for Autism Research Excellence Group Meeting | Boston University	Sept 2022
Harvard Bookstore Talk (with Drs. Dani Bassett & Perry Zurn) | Cambridge, MA	Sept 2022
Summer Conversations with Scientists | Boston Children's Hospital	Aug 2022
Human 2.0 (Human Augmentation Course), Guest Lecture | MIT	April 2022
Yu Lab Translational Genomics Group Meeting | Boston Children's Hospital	March 2022
Translational Neuroscience Center Seminar | Boston Children's Hospital	Feb 2022

Alana Down Syndrome Center Seminar | MIT	June 2021
Kennedy Day School Faculty Meeting | Franciscan Children's Hospital	May 2021
Mind-Assisting Technologies for Therapy, Education, & Research Sem. | Child Mind Inst.	April 2021
Deshpande Center for Technological Innovation, IdeaStream 2021 | MIT	April 2021
Functional Neuroimaging & Bioinformatics Lab Group Meeting | McLean Hospital	March 2021
Designing Tech to Help Humans Thrive Seminar | MIT Media Lab	Oct 2020
Advanced Seminar on Affective Computing Course, Guest Lecture | MIT	Oct 2020
Center for Autism Research Excellence Group Meeting | Boston University	Sept 2020
Human 2.0 (Human Augmentation Course), Guest Lecture | MIT	April 2020
Deshpande Center for Technological Innovation | MIT	March 2020
Festival of Learning | MIT Media Lab	Jan 2020
Higashi School for Autism | Randolph, MA	Oct 2019
Festival of Learning | MIT Media Lab	Feb 2019
Advanced Seminar on Affective Computing, Guest Lecture | MIT	May 2018
Reimagining Education Summit | American University	April 2018
Autism Theory & Technology Course, Guest Lecture | MIT	Feb 2018
Autism CHATTER Symposium | Northeastern University	June 2017
Current Trends in Autism Research (CTIA) Conference (Plenary) | Burlington, MA	May 2017
Applied Mathematics & Engineering Workshop | University of Pennsylvania	Feb 2017
Laboratories of Cognitive Neuroscience Group Meeting | Boston Children's Hospital	Feb 2017
Advancing Wellbeing Workshop | MIT Media Lab	Oct 2016
Adv. Topics in Autism Spectrum Disorder, Guest Lect. | MGH Inst. of Health Professions	Aug 2015
Anacapa School Synthesis Unit on Space, Guest Lecture | Santa Barbara, CA	Jan 2013
Applied Dynamics Seminar | University of Maryland	March 2010
Applied Dynamics Seminar | University of Maryland	Dec 2009

CONFERENCE PRESENTATIONS & POSTERS

Acoustical Society of America Spring Meeting | Ottawa, Canada	May 2024
Meeting on Language in Autism (MoLA) Conf | Durham, NC	Mar 2024
American Speech & Hearing Association Conf | Boston, MA	Nov 2023
Meeting on Language in Autism (MoLA) Conf | Durham, NC	Mar 2023
Affective Computing & Intelligent Interaction (ACII) Conf | Nara, Japan	Oct 2022
Society for the Neurobiology of Language (SNL) Conf | Philadelphia, PA	Oct 2022
International Society for Autism Research (INSAR) Conf | Austin, TX	May 2022
International Conf. on Multimodal Interaction (ICMI) | Utrecht, Netherlands	Oct 2020
Laughter & Nonverbal Vocalizations Workshop | Bielefeld, Germany	Oct 2020
International Society for Autism Research (INSAR) Conf | Seattle, WA	June 2020
Computer-Human Interaction (CHI) Conf | Honolulu, HI	May 2020
Neural Information Processing (NeurIPS) Conf | Vancouver, Canada	Dec 2019
Neurodevelopmental Disorders (NDD) Symposium | Boston, MA	Nov 2019
Zero Gravity Flight Research Symposium | Cambridge, MA	Oct 2018
IEEE Engineering in Medicine & Biology Conf (EMBC) | Honolulu, HI	July 2018
International Society for Autism Research (INSAR) Conf | Rotterdam, Netherlands	May 2018
SIGCHI Interaction Design & Children (IDC) Conf | Stanford, CA	June 2017
Neurodevelopmental Disorders (NDD) Symposium | Boston, MA	Nov 2016
International Society for Autism Research (INSAR) Conf | Baltimore, MA	May 2016
American Physical Society (APS) Div. of Fluid Dynamics (DFD) Conf | Long Beach, CA	Nov 2010
American Physical Society (APS) Div. of Fluid Dynamics (DFD) Conf | Minneapolis, MN	Nov 2009
Sigma Xi Student Research Symposium, Saint Joseph's University | Philadelphia, PA	April 2008

Nonlinear Dynamics (TREND) Research Symposium | College Park, MD Aug 2006

SELECTED PRESS

Emotional Recognition | The Future With Hannah Fry Episode 2 [television segment; ~19:00]
BBC Bloomberg television show | March 1, 2023

Understanding Minimally Verbal Individuals Using Machine Learning, with Kristy Johnson [podcast]
The Biotech Futurist podcast | March 6, 2023

Researchers publish new dataset on minimally verbal autistic people [article]
Spectrum News article | May 18, 2022

Kristy Johnson: Expanding communication for all [article]
MIT News article | August 4, 2021

More Than a Watch: How Wearable Tech is Helping Advance Neuroscience [article]
BrainPost article | Oct 20, 2020

A legacy of curiosity in the name of Hugh Hampton Young [article]
MIT News article | Sept 15, 2020

Embracing neurodiversity to better understand autism [cover story]
McGovern Institute for Brain Research article | March 2, 2020

Neurodiverse Curiosity, with Kristy Johnson [article] [podcast]
Choose to Be Curious article & podcast | Dec 11, 2019

Introducing the 2018-19 MIT Media Lab Learning Fellows [article]
MIT Media Lab article | Nov 13, 2018

American Sign Language at MIT [article]
MIT News | Sept 14, 2017

Meet the MIT Media Lab Learning Fellows [article]
MIT Media Lab article | Sept 8, 2017

Meet the Labbers: Kristy Johnson [article] [podcast]
MIT Media Lab interview | Feb 8, 2017

Interviews from the Field: Kristy Johnson [article]
Autism Resources & Community, Stages Learning interview | Jan 25, 2017

Meet the Media Lab's New Learning Innovation Fellows [article]
MIT Media Lab article | Oct 21, 2016

Northeastern and MIT Labs Team Up to Study Autism [article]
Northeastern News article | Dec 01, 2015

Hackathon aims to invent breast pumps that don't suck [article]
NewScientist article | Sept 24, 2014

Imaging an Array of Quantum Tornadoes [invited press article]
American Physical Society (APS) Pressroom article | Oct 2009

PROFESSIONAL SERVICE

MIT Institute Committee: Council on Family & Work (Graduate Representative)	2019 – 2021
American Sign Language & Deaf Culture Club and Classes (Founding Member)	2015 – 2021
Student Advocacy Group, MIT Media Lab (Member)	2019 – 2020
BREATHE Respiration Hackathon, MIT/London/Haifa (Co-Organizer for MIT)	2015

Ad Hoc Reviewer: Autism Research; Journal of Speech, Language, and Hearing Research (JSLHR); Developmental Science; eNeuro; ACM Human Factors in Computing Systems (CHI); Affective Computing & Intelligent Interaction (ACII); IEEE Transactions on Affective Computing; npj Microgravity

NIH NIDCD Workshop on Non-Speaking Individuals with Autism (Invited Scholar) 2023

PROFESSIONAL CERTIFICATIONS

Collaborative Institutional Training Initiative (CITI)

Responsible Conduct of Research (RCR) Series Certification	2021 – Present
Human Research for Biomedical Investigators Certification	2014 – Present

Applied Biostatistics: Core Curriculum & Advanced Topics (Harvard) 2022 – 2023

PROFESSIONAL SOCIETY MEMBERSHIPS

Institute of Electrical and Electronics Engineers (IEEE)
IEEE Engineering in Medicine and Biology Society (EMBS)
International Society for Autism Research (INSAR)
American Speech-Language-Hearing Association (ASHA)

MENTORED STUDENTS

Bianca Booth	BCH	Feb 2024 – Present
Tsambika Rizas	Northeastern U.	Jan 2024 – Present
Emine Arcasoy	BCH	Sept 2023 – Present
Emma McGonigle	Northeastern U.	Dec 2022 – Present
Isabelle Iannotti	BCH	Sept 2023 – May 2024
Simon Radhakrishnan	MIT	June 2021 – May 2024
Tanisha Chanda	BCH, Georgia Tech	Aug 2023 – Jan 2024
Alexis Monk	BCH, Harvard	Mar 2023 – Jan 2024
Maggie Norberg	BCH, Tufts	Dec 2022 – Jan 2024
Anna Stewart	BCH, Harvard	Dec 2022 – Jan 2024
Jordan Harris	BCH COACH Intern	June – Aug 2022
Michelle Luo	MIT	Feb 2020 – Jan 2021
Yuji Chan	Wellesley	Feb – Aug 2020
Peter Wofford	MIT	Jan – May 2020
Eke Wokocha	MIT	Feb – Aug 2019

Xuankai Fang	MIT	Feb – May 2019
Lindsay Epstein	MIT	Feb – May; Sept – Dec 2017
Scott Mandelbaum	MIT	June – Dec 2017
S. Violet Killy	MIT	June – Aug 2017; Feb – May 2018
Laura Yechensky	MIT	Jan 2017
Conor Kirby	MIT	Jan – May 2017
Luis Donatiu	MIT Visiting Student; supervised senior thesis	Sept 2016 – May 2017
Carly Silvernale	MIT	Sept – Dec 2016; Feb – May 2017
Luis Torres	MIT	Sept – Dec 2016