Agata Rozga
Principal Research Scientist
School of Interactive Computing

I. EARNED DEGREES

Ph.D.	2008	University of California, Los Angeles	Developmental Psychology
M.A.	2002	University of California, Los Angeles	Developmental Psychology
B.A.	2000	University of California, Berkeley	Psychology

II. EMPLOYMENT HISTORY

Principal Research Scientist	Georgia Tech, Atlanta, GA	2023 –
Director of Translational Research	AI-CARING Institute Georgia Tech, Atlanta, GA	2022 –
Senior Research Scientist	Georgia Tech, Atlanta, GA	2015 – 2023
Research and Programs Director	Charlie & Harriet Schaffer Cognitive Empowerment Program Georgia Tech/Emory, Atlanta, GA	2021 – 2023
Head of Product	Diligent Robotics Inc., Austin, TX	2018 – 2019
Human Centered Design Lead	Diligent Droids LLC, Austin, TX	2016 – 2018
Research Scientist II	Georgia Tech, Atlanta, GA	2010 – 2015
Postdoctoral Fellow	Georgia State University Atlanta, GA	2008 – 2009
Behavior Therapist	Behavior Analysts Inc. Walnut Creek, CA	2002 – 2003
Graduate Research Assistant	UCLA, Los Angeles, CA	2002 – 2003

III. HONORS AND AWARDS

2013 Outstanding Research Scientist Award, GT College of Computing
2008 Postdoctoral Fellowship, Center for Behavioral Neuroscience, GSU
2008 Best Developmental Psychology Dissertation Award, UCLA
2001 Jacob K. Javits Predoctoral Fellowship, U.S. Department of Education
2000 Edwin Pauley University Fellowship, UCLA

IV. RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

A. Published Books and Parts of Books

1. Nazneen, N. **Rozga, A**., Abowd, G. D. and Arriaga, R. I. "Behavior Imaging," in Autism Imaging and Devices, pp. 345-354, (M. F., Cassanova, A. S. El-Baz, and J.S.Suri, Eds.), Taylor and Francis (2016).
2. **Rozga, A**., Andersen, S., & Robins, D. "Major current neuropsychological theories of ASD," in The Neuropsychology of Autism, pp.97-122, (D. Fein, Ed.), New York: Oxford University Press (2011).
3. Sigman, M., Dijamco, A., Gratier, M., & **Rozga, A**. "Early detection of core deficits in autism," in Mental Retardation and Developmental Disabilities Research Reviews: Special Issue: An Update on Autism Research, vol 10, pp.221–233, (J.P iven, Ed.), Wiley (2004).
4. Beckwith, L., **Rozga, A**., Sigman, M. "Maternal sensitivity and attachment in atypical groups," In Advances in Child Development and Behavior, vol.30, pp.231–274, (R.V. Kail, Ed.), Academic Press (2002).

B. Published Journal Papers (refereed)

1. Rodriguez, A. D., DuBose, J. R., **Rozga, A**., Zimring, C. M., Mynatt, E. D., Clifford, G. D., ... & Levey, A. I. (2026). "Rationale and design of a multidomain lifestyle program for Mild Cognitive Impairment." *Alzheimer's & Dementia*, *22*(1), e71068.
2. Giannotto, E. L., Rodriguez, A. D., DuBose, J., Rozga, A., Clifford, G., Rasheed, C., Moon, T., LaForce, S., & Levey, A. I. (2025). "The feasibility of a tai chi for sleep intervention for persons with MCI and their caregivers." Alzheimer's & Dementia, *21*, e102407.
3. Justus, S.A., Singleton, J.L. and **Rozga, A**., 2024. "The Utility of the R-ABC in Assessing Risk for Autism Compared With the M-CHAT: An Exploratory Study." Focus on Autism and Other Developmental Disabilities, *39*(4), 216-226.
4. Beattie, Z.T., Gothard, S., Barnes, L.L., Calloway, S., Gonzales, M.M., Jones, B.D., Kautz, T.F., Levey, A.I., Mathews, J.J., Mulavelil, R., Phelps, B., Rosen, H.J., **Rozga, A**., Seshadri, S., Staffaroni, A.M., Wasserman, D.K., Wise, A.B., & Kaye, J. 2022. "The Collaboration and Harmonization of Digital Biomarkers for Alzheimer's Research." Alzheimer's & Dementia, 18(S2), p.e067984.
5. Scheithauer, M., Hiremath, S., Southerland, A., **Rozga, A**., Ploetz, T., Rock, C. and Call, N., 2022. "Feasibility of accelerometer technology with individuals with autism spectrum disorder referred for aggression, disruption, and self-injury." Research in Autism Spectrum Disorders, 98, p.102043.
6. Prince, E. B., Ciptadi, A., Tao, Y., **Rozga, A.**, Martin, K. B., Rehg, J., & Messinger, D. S. "Continuous measurement of attachment behavior: A multimodal view of the strange situation procedure." Infant Behavior and Development, vol. 63, art, 101565, 2021.
7. Chong, E., Clark-Whitney, E., Southerland, A., Stubbs, E., Miller, C., Ajodan, E. L., Silverman, M., Lord, C., **Rozga, A**., Jones, M.R., & Rehg, J. M. "Detection of eye contact with deep neural networks is as accurate as human experts." Nature Communications, vol. 11, no. 1, pp.1-10, 2020.
8. Chow, S.M., Ou, L., *Ciptadi, A., *Prince, E.B., You, D., Hunter, M.D., Rehg, J., **Rozga, A**., & Messinger, D.S. "Representing sudden shifts in intensive dyadic interaction data using differential equation models with regime switching." Psychometrika, vol. 83, no. 2, pp.476-510, 2018.

9. **Rozga, A**., Hesse, E., Main, M., Duschinsky, R., Beckwith, L., & Sigman, M. "A short-term longitudinal study of correlates and sequelae of attachment security in autism." Attachment & Human Development, vol.20, no.2, pp.160-180, 2017.
10. Chong, E., Chanda, K., Ye, Z., Southerland, A., Ruiz, N., Jones, R., **Rozga, A.**, & Rehg, J. "Detecting Gaze Towards Eyes in Natural Social Interactions and Its Use in Child Assessment." Proceedings of the 2017 ACM Conference on Interactive, Multimedia, Wearable and Ubiquitous Technologies (IMWUT), vol. 1, no. 3, article 43, pp. 1-20, 2017.
11. Edmunds, S.R., **Rozga, A**., Li, Y., Karp, E.A., Ibanez, L.V., Rehg, J.M., Stone, W.L. "Using a point-of-view camera to measure eye gaze in young children with autism spectrum disorder during naturalistic social interactions: A pilot study." Journal of Autism and Developmental Disorders, vol. 47, no. 3, pp. 898–904, 2017.
12. Jones, R.M., Southerland, A., Hamo, A., Carberry, C., Bridges, C., Nay, S., Stubbs, E., Komarow, E., Washington, C., Rehg, J.M., Lord, C., & **Rozga, A**. "Increased eye contact during conversation compared to play in children with autism." Journal of Autism and Developmental Disorders, vol. 47, no. 3, pp. 607–614, 2017.
13. Kunda, M., **Rozga, A.**, Soulieres, I., & Goel, A. "Error Patterns on the Raven's Standard Progressive Matrices Test." Intelligence, vol. 59, pp. 181–198, 2016.
14. Gupta, R., Audhkhasi, K., Jacokes, Z., **Rozga, A**., & Narayanan, S. "Modeling multiple time series annotations based on ground truth inference and distortion." Transactions on Affective Computing, vol. 99, 2016.
15. Smith, C., **Rozga, A.**, Matthews, N., Oberleitner, R., Nazneen, N., & Abowd, G. "Investigating the accuracy of novel telehealth diagnostic approach for Autism Spectrum Disorder." Psychological Assessment, vol. 29, no. 3, pp. 245-252, 2016.
16. Nazneen, F., **Rozga, A**., Smith, C., Oberleitner, R., Abowd, G.D., & Arriaga, R. A novel system for supporting autism diagnosis using home videos: Iterative development and evaluation of system design. JMIR mHealth and uHealth, vol. 3, no. 2, e68, 2015.
17. **Rozga, A**., King, T.Z., Vuduc, R.W., & Robins, D.L. "Undifferentiated facial electromyography responses to emotional stimuli in individuals with autism spectrum disorders." Developmental Science, vol. 16, no. 4, pp. 499-516, 2013.
18. Hutman, T., **Rozga, A**., DeLaurentis, A., Sigman, M., & Dapretto, M. "Infants' pre-empathic behaviors are associated with language skills." Infant Behavior & Development, vol. 35, no. 3, pp. 561-569, 2012.
19. Nazneen, F., **Rozga, A**., Romero, M., Call, N., Findley, A., Abowd, G., & Arriaga, R. "Supporting parents for in-home capture of problem behaviors of children with developmental disabilities." Journal of Personal and Ubiquitous Computing, vol. 16, no.2, pp. 193-207, 2012.
20. **Rozga, A**., Hutman, T., Young, G. S., Rogers, S., Ozonoff, S., Dapretto, M., & Sigman, M. "Behavioral profiles of affected and unaffected siblings of children with autism: Contribution of measures of mother-infant interaction and nonverbal communication." Journal of Autism and Developmental Disorders, vol. 41, no. 3, pp. 287-301, 2011.
21. Young, G. S., Rogers, S., Hutman, T., **Rozga, A**., Sigman, M., & Ozonoff, S. "Imitation from 12 to 24 months in autism and typical development: A

longitudinal Rasch analysis." Developmental Psychology, vol. 47, no. 6, pp. 1565-1578, 2011.

22. Hutman, T., **Rozga, A**., DeLaurentis, A. D., Barnwell, J., Sugar, C. A., & Sigman, M. "Response to distress in infants at risk for autism: a prospective longitudinal study." Journal of Child Psychology and Psychiatry, vol. 51, no. 9, pp. 1010-1020, 2010.
23. Christensen, L., Hutman, T., **Rozga, A.**, Young, G.S., Ozonoff, S., Rogers, S.J., Baker, B., & Sigman, M. "Play and developmental outcomes in infant siblings of children with autism." Journal of Autism and Developmental Disorders, vol. 40, no. 8, pp. 946-957, 2010.
24. Ozonoff, S., Iosif, A., Baguio, F., Cook, I., Moore-Hill, M., Hutman, T., Rogers, S.J., **Rozga, A**., Sangha, S., Sigman, M., Stenfield, M.B., & Young, G.S. "A prospective study of the emergence of early behavioral signs of autism." Journal of the American Academy of Child and Adolescent Psychiatry, vol. 49, no. 3, pp. 256-266, 2010.
25. Nadig, A., Ozonoff, S., Young, G. S., **Rozga, A**., Sigman, M., & Rogers, S.J. "A prospective study of response-to-name in infants at risk for autism." Archives of Pediatrics and Adolescent Medicine, vol. 161, pp. 378–383, 2008.

C. Published Papers (nonrefereed)

1. Chernova, S., Mynatt, E., **Rozga, A**., Simmons, R. and Yanco, H., 2024. "AI-CARING: National AI Institute for Collaborative Assistance and Responsive Interaction for Networked Groups". AI Magazine, 45(1), 124-130.
2. Liu, Y., Moreno, A., Xu, M.A., Li, S., McDaniel, J.C., Brady, N.M., Rozga, A., Li, F., Song, L., Rehg, J.M. "Efficient Learning and Decoding of the Continuous-Time Hidden Markov Model for Disease Progression Modeling." arXiv preprint arXiv:2110.13998 (2021).
3. Rehg, J., **Rozga, A**., Abowd, G., & Goodwin, M. "Behavioral Imaging and Autism." IEEE Pervasive, vol. 13, no. 2, pp. *13*(2), 84-87, 2014.

D. Invited Conference Presentations

1. **Rozga, A**., "Computational Behavioral Science: Opportunities for Computing to Advance our Understanding of Typical and Atypical Development." Invited presentation at the Georgia Tech Engineering Psychology Colloquium, November 3, 2015, Atlanta, GA.
2. **Rozga, A**. "Computational Behavioral Science: Opportunities for Computing to Advance our Understanding of Typical and Atypical Development." Invited presentation at the Georgia State University Developmental Psychology Colloquium, October 14, 2015, Atlanta, GA.
3. **Rozga, A**. "An Ecological Approach to Technology for Developmental Milestone Tracking." Invited presentation to the Georgia Early Education Alliance for Ready Students (GEEARS) meeting on *Early Brain Development Innovation & Research*, September 17, 2015, Atlanta, GA.
4. **Rozga, A**. "Opportunities for Computing to Improve Measurement of Behavior in Autism." Invited presentation at the Marcus Autism Center's 4th Annual Summer Symposium on Autism Spectrum Disorders, July 15, 2015, Atlanta, GA.
5. **Rozga, A**. "A novel telemedicine platform for remote diagnosis of ASD." Invited seminar presentation to the Prevention Research Branch of National Center on Birth Defects and Developmental Disabilities at Centers for Disease Control and Prevention, July 22, 2014, Atlanta, GA.

6. **Rozga, A.** "The "B" in CBS (Computational Behavioral Science): a View from the Trenches." Georgia Tech GVU Center Brown Bag seminar, April 24, 2014, Atlanta, GA.
7. **Rozga, A**. "Modeling developmental trajectories in autism: Opportunities for Computational Behavioral Science." Invited address at the First International Symposium on Computational Behavioral Science, September 26-28, 2013, Shonan Village, Japan.
8. **Rozga, A**. "Screening for autism spectrum disorders in primary care settings." Invited address at the Annual Spring Meeting of the Georgia Chapter of Pediatrics, June 1–3, 2008, Amelia Island, FL.

E. Conference Presentations with Proceedings (refereed)

1. Benandi, J., Mathur, N., Park, S., Mitzner, T.D., Mynatt, E., **Rozga, A.** 2026. "The Only Thing Certain About This is Uncertainty": Exploring Informal Care Coordination Practices Among Older Adults with Mild Cognitive Impairment." Accepted for publication in Proceedings of the 29th Conference on Computer Supported Cooperative Work (CSCW 2026).
2. Mathur, N., Zubatiy, T., **Rozga, A**., Forlizzi, J. and Mynatt, E. 2026. "Sometimes You Need Facts, and Sometimes a Hug: Understanding Older Adults' Preferences for Explanations in LLM-Based Conversational AI Systems." In Proceedings of the 2026 ACM CHI conference on Human Factors in Computing Systems, Article No.: 474, pp.1-21.
3. Mynatt, E.D., Kobayashi, M., Pradhan, A., Mathur, N., Vines, J., Seaborn, K., Buehler, E., Waycott, J., Rudnik, J., Zubatiy, T. and **Rozga, A**., 2025. "Technology Mediated Caregiving for Older Adults Aging in Place." In Proceedings of the Extended Abstracts of the CHI Conference on Human Factors in Computing Systems, pp. 1-7.
4. Zubatiy, T., Mathur, N., Heck, L., Vickers, K.L., **Rozga, A**. and Mynatt, E.D. 2023. "I don't know how to help with that - Learning from Limitations of Modern Conversational Agent Systems in Caregiving Networks." In Proceedings of the ACM on Human-Computer Interaction, 7 (pp.1-28).
5. Mathur, N., Zubatiy, T., **Rozga, A.** and Mynatt, E., 2023. "Why Did You Say That? Understanding Explainability in Conversational AI Systems for Older Adults with Mild Cognitive Impairment (MCI)." In Proceedings of the International Conference on Ubiquitous Computing and Ambient Intelligence, pp. 208-214.
6. Chong, E., Ruiz, N., Wang, Y., Zhang, Y., **Rozga, A**., & Rehg, J. 2018. "Connecting gaze, scene, and attention: Generalized attention estimation via joint modeling of gaze and scene saliency." In Proceedings of the European Conference on Computer Vision (ECCV), pp. 383-398.
7. Chong, E., Southerland, A., Kundu, A., Jones, R., **Rozga, A**., Rehg, J. 2017. "Visual 3D Tracking of Child-Adult Social Interactions." In Proceedings of the 7th Joint International Conference on Development and Learning and on Epigenetic Robotics (ICDL-EpiRob), pp. 399-406.
8. Tsatsoulis, D.P., Kordas, P., Marshall, M., Forsyth, D., & **Rozga, A**. 2016. The Static Multimodal Dyadic Behavior Dataset for Engagement Prediction." *Proceedings of the European Conference on Computer Vision* (ECCV), pp.386-399.
9. Bhattacharya, A., Gelsomini, M., Perez-Fuentes, P., Abowd, G.D., & **Rozga, A**. 2015. "Designing Motion-Based Activities to Engage Students with Autism

in Classroom Settings." Proceedings of the 2015 ACM SIGCHI Conference on Interaction Design for Children (IDC), pp.69-78.

10. Ye, Z., Li, Y., Liu, Y., Bridges, C., **Rozga, A**., & Rehg, J. 2015. "Detecting bids for eye contact using a wearable camera." Proceedings of the 11th International Conference on Automatic Face and Gesture Recognition (FG 2015), vol. 1.
11. Rajagopalan, S.S., Murthy, R., Goecke, R., and **Rozga, A**. 2015. "Play with Me - Measuring a Child's Engagement in a Social Interaction." Proceedings of the 11th International Conference on Automatic Face and Gesture Recognition (FG 2015), vol. 1.
12. Han, Y., **Rozga, A**., Dimitrova, N., Abowd, G., & Stasko, J. 2015. "Visual Analysis of Proximal Temporal Relationships of Social and Communicative Behaviors." Proceedings of the 17th Eurographics/IEEE Symposium on Visualization (EuroVis 2015), vol. 34, no. 3, pp. 51-60.
13. Bidwell, J., **Rozga, A**., Essa, I., & Abowd, G.D. 2014. "Measuring child visual attention using markerless head tracking from color and depth sensing cameras." Proceedings of the 16th International Conference on Multimodal Interaction (ICMI 2014), pp.447-454.
14. Hernandez, J., Riobo, I., **Rozga, A**., Abowd, G.D., & Picard, R. 2014. "Using Electrodermal Activity to Recognize Ease of Engagement in Children during Social Interactions." Proceedings of the International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014), pp. 307-317.
15. Rao, H., Kim, J., Clements, M., **Rozga, A**., & Messinger D. 2014. "Detection of Children's Paralinguistic Events in Interaction with Caregivers." Proceedings of the 15th Annual Conference of the International Speech Communication Association (Interspeech), pp. 1229-1233/
16. Ji, Y., Hong, H., Arriaga, R., **Rozga, A**., Abowd, G.D., Eisenstein, J. 2014. "Mining Themes and Interests in the Asperger's and Autism Community." Proceedings of the Workshop on Computational Linguistics and Clinical Psychology: From Linguistic Signal to Clinical Reality (ACL 2014), pp. 97-106.
17. Kunda, M., Soulières, I., **Rozga, A**., & Goel, A. K. 2013. "Methods for Classifying Errors on the Raven's Standard Progressive Matrices Test." Proceedings of the 35th Annual Meeting of the Cognitive Science Society, pp. 2796-2801.
18. Presti, L.L., Sclaroff, S., & **Rozga, A**. 2013. "Joint Alignment and Modeling of Correlated Behavior Streams." Proceedings of International Conference on Computer Vision, Workshop on Decoding Subtle Cues from Social Interactions (ICCV 2013), pp.730-737.
19. Rehg, J.M., Abowd, G.D., **Rozga, A**., Romero, M., Clements, M., Sclaroff, S., Essa, I., Ousley, O., Li, Y., Kim, C., Rao, H., Kim, J., Presti, L., Zhang, J., Lantsman, D., Bidwell, J., & Ye, Z. 2013. "Decoding children's social behavior." Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR 2013), pp.3414-3421.
20. Han, Y., **Rozga, A**., Stasko, J., & Abowd, G.D. 2013. "Visual Exploration of Common Behaviors for Developmental Health." Proceedings of the 2013 Workshop on Visual Analytics in Healthcare, (VAHC 2013), pp.15-18.
21. Ploetz, P., Hammerla, N., **Rozga, A**., Reavis, A., Call, N., & Abowd, G. 2012. "Automatic assessment of problem behavior in individuals with developmental disabilities." Proceedings of the Conference on Ubiquitous Computing (UbiComp 2012), pp. 391-400. *Best Paper Nominee*

22. Ye, Z., Li, Y., Fathi, A., Han, Y., **Rozga, A**., Abowd, G.D., Rehg, J. 2012. "Detecting eye contact using wearable eye-tracking glasses." Proceedings of the Conference on Ubiquitous Computing (UbiComp 2012), pp.699-704.
23. Nazneen, F., Boujarwah, F.A., **Rozga, A**., Abowd, G. D., Arriaga, R. I., Oberleitner, R., & Pharkute, S. 2012. "Towards in-home collection of behavior specimens: Within the cultural context of autism in Pakistan." Proceedings of the 6th International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2012), pp.9-16.
24. Gupta, R., Lee, C., Bone, D., Rozga, A., Lee, S., Narayanan, S. 2012. "Acoustical analysis of engagement behavior in children." Proceedings of Workshop on Child, Computer and Interaction (WOCCI 2012).
25. Shin, G., Choi, T., **Rozga, A**., & Romero, M. 2011. "VizKid: A Behavior Capture and Visualization System of Adult-Child Interaction." Proceedings of the 14th International Conference on Human-Computer Interaction (HCII 2011), pp.190-198. *Best paper in Human Interfaces and Management of Information.*

F. Conference Presentations without Proceedings

1. Brady, N., McDaniel, J., Boorom, O., Radhakrishnan, A., Martell, S., Southerland, A.M., Rehg, J., **Rozga, A**. 2026. "Developing Computational Models of Prelinguistic Skills in Minimally Verbal Autistic Children." Presented at the 2026 International Meeting for Autism Research (INSAR), April 22-25, 2026, Prague, Czech Republic.
2. O., Martell, S., Southerland, A., Fleming, K., Rehg, J., **Rozga, A**., Brady, N., and McDaniel J. 2025. "Predictors of Canonical Vocalization Development in Preverbal Autistic Toddlers." Accepted for presentation at the 2026 Meeting on Language in Autism (MOLA).
3. Johnson, R., Seenaraine, E. R., Southerland, A.M., Martell, S., **Rozga, A**. 2025. "Restricted and Repetitive Behaviors as Predictors of Language Development in Toddlers with Autism." Accepted for presentation at the 2026 Meeting on Language in Autism (MOLA).
4. Boorom, O., McDaniel, J., Martell, S., Cochran, L., Southerland, A., **Rozga, A.**, & Brady, N. (2024). *Associations between prelinguistic communication and vocalization development in preverbal toddlers with autism*. Presented at the Symposium on Research in Child Language Disorders in Madison, WI.
5. Xu, M., Rehg, J.M., **Rozga, A**., McDaniel, J., Yoder, P., Watson, L., Brady, N.C. (2022). Discovering Novel Predictors of Minimally Verbal Outcomes in Autism through Computational Modeling. Oral presentation at the 2022 Annual Meeting of the International Society for Autism Research, May 11-14, Austin, TX. *Selected as one of 7 abstracts to be featured at the meeting's press conference*.
6. **Rozga, A**., Southerland, A., McCall, M., Stubbs, E., Silverman, M., Ajodan, E., Chanda, K., Chong, E., Rehg, J.M., & Jones, R.M. (2018). Characterizing Temporal-Contextual Effects on Social and Object-Directed Attention in ASD Via High-Density Video Coding. Oral presentation at the 2018 International Meeting for Autism Research, May 9-12, Rotterdam, NE.
7. **Rozga, A**., Washington, C., Bridges, C., Wu, A., Southerland, A., & de Barbaro, K., (2017). Attention to Faces, Objects, and Gaze Modulation in Toddlers At-Risk. Oral presentation at the Biennial Meeting of the Society for Research in Child Development, April 6-8, Austin, TX.

8. Prince, E.B., Ciptadi, A., **Rozga, A**., Warlaumont, A., Regh, J.M., Messinger, D. (2017). Using objective measurements of movement and vocalization data to predict attachment behavior. Poster presented at the Society for Research in Child Development (SRCD) Biennial Meeting, April 6 – 8, Austin, Texas.
9. Prince, E., Warlaumaont, A., Oller, K.D., Chow, S., **Rozga, A**., Ciptadi, A., Rehg, J., Messinger, D. (2016). Strange Situation Vocalizations Differ Between Secure and Insecure-Resistant Infants. Oral presentation at the International Conference on Infant Studies (ISIS), May 26-28, New Orleans, LA.
10. Edmunds, S., Li, Y., **Rozga, A**., Ibanez, L., Karp, E., Rehg, J., & Stone, W. (2014). A novel, ecologically valid approach to measure eye-to-eye gaze in young children during naturalistic social interactions. Oral presentation at the Society for Research in Child Development Special (SRCD) Topic Meeting: Developmental Methodology, September 11-13, San Diego CA.
11. Nazneen, F., **Rozga, A**., Smith, C.J., Oberleitner, R.M., Abowd, G.D., & Arriaga, R. (2014). Iterative Design of a System to Support Diagnostic Assessments for Autism Using Home Videos. Poster and demo presented at the International Meeting for Autism Research (IMFAR), May 14-17, Atlanta, GA.
12. Bidwell, J., **Rozga, A**., Kim, J.C., Rao, H., Clements, M.A., & Abowd, G.D. (2014). Automated Prediction of a Child's Response to Name from Audio and Video. Poster presented at the International Meeting for Autism Research, IMFAR, May 14-17, Atlanta, GA.
13. Liu, Y., Li, Y., De la Torre, F., **Rozga, A**., & Rehg, J. (2014). Real-Time Eye Contact Detection System. Poster and demo presented at the International Meeting for Autism Research (IMFAR), May 14-17, Atlanta, GA.
14. Rao, H., Kim, J.C., **Rozga, A**., Clements, M.A. (2014). Paralinguistic Event Detection in Children's Speech. Poster presented at the International Meeting for Autism Research (IMFAR), May 14-17, Atlanta, GA.
15. Han, Y., **Rozga, A**., Stasko, J.T., Abowd, G.D. (2013). Using Visual Analytics to Understand Social and Communicative Behaviors. Poster presented at the IEEE Information Visualization Conference, October 13-18, Atlanta, GA.
16. Abowd, G.A., **Rozga, A.**, Rehg, J.M., and Clements, M. (2013). Using Computational Tools to Measure Social Communication and Engagement in Young Children. Oral presentation at the International Meeting for Autism Research, May 1-3, San Sebastian, Spain.
17. **Rozga, A**., Hammerla, N., Ploetz, T., Call, N., Reavis, A. (2012). Use of On-Body Sensing and Computational Analysis to Automatically Detect Problem Behaviors. Poster presented at the International Meeting for Autism Research (IMFAR), May 17-19, Toronto, Canada.
18. Ciptadi, A., **Rozga, A**., Rehg, J., Abowd, G.D. (2012). Automatic Retrieval of Videos of Stereotyped and Repetitive Movements. Poster presented at the International Meeting for Autism Research (IMFAR), May 17-19, Toronto, Canada.
19. Hutman, T., Gomez, L., Gillespie-Lynch, K., **Rozga, A**., Sigman, M., & Johnson, S.P. (2011). Joint attention predicts adaptive behavior development in infants with and without ASD. Poster presented at the International Meeting for Autism Research, May 12–14, San Diego, CA.
20. Ozonoff, S., Young, G. S., Human, T., Sigman, M., Rogers, S., Hill, M., Steinfeld, M., **Rozga, A**. (2011). Stability of ASD Classification From 18 to 36 Months in Infants at Risk for ASD. Oral presentation at the annual meeting of

the Society for Research in Child Development, March 31-April 2, 2011, Montreal, Canada.

21. **Rozga, A**., Young, G., Sigman, M. Ozonoff, S., & Rogers, S. (2008). Early risk for autism: The contribution of measures of mother-infant interaction, nonverbal communication, and language. Oral presentation at the International Meeting for Autism Research, May 15–17, London, UK.
22. Ozonoff, S., Rogers, S., Sigman, M., Young, G. S., & **Rozga, A**. (2005). Autism and the broader phenotype in baby siblings of children with autism. Oral presentation at the annual meeting of the Society for Research in Child Development, April 7–10, Atlanta, GA.

G. Grants and Contracts

G1. As Principal Investigator

Title: *Discovering novel predictors of minimally verbal outcomes in autism through computational modeling*
Agency/Company: NIH
Total dollar amount: $3,553,500
Role: PI
Collaborators: Nancy Brady (PI, KU), Jena C. McDaniel (PI, Vanderbilt)
Period of Contract: 7/1/2022 – 6/30/2027

G2. Submitted

Title: *AI-Assisted Ecosystem for Longitudinal Behavioral Sensemaking and Collaborative Caregiving*
Agency/Company: NIH
Role: PI (GT)
Collaborators: Varun Mishra (PI, Northeastern), Zhi Tan (co-I, Northeastern), Dakuo Wang (co-I, Northeastern)
Total Dollar Amount: $4,602,136.00
Period of Contract: 05/01/2027 – 04/30/2032

G3. Completed

Title: *Data-driven multidimensional modeling of nonverbal communication in typical and atypical development*
Agency/Company: NIH
Funding level: $1,762,650
Role: PI
Collaborators: Jim Rehg (co-PI), Rebecca Jones (co-I, Weill Cornell), Catherine Lord (PI, Weill Cornell)
Period of Contract: 8/1/2018 – 5/31/2023

Title: *Objective Measurement of Challenging Behaviors in Individuals with ASD*
Agency/Company: NIH
Total dollar amount: $500,000
Role: PI at Georgia Tech
Collaborators: Thomas Ploetz (co-I), Nathan Call (PI), Mindy Scheithauer (co-I)
Period of Contract: 9/23/2016 – 9/22/2018

Title: *Objective Measures of Social Interactions via Wearable Cameras*
Agency/Company: Simons Foundation
Total dollar amount: $500,000
Role: co-PI at Georgia Tech
Collaborators: Jim Rehg (PI), Rebecca Jones (PI at Weill Cornell), Catherine Lord (co-PI at Weill Cornell)
Period of Contract: 9/1/2015 – 8/31/2018

Title: *I-CORPS: First Person Visual Analytics*
Agency/Company: NSF
Total dollar amount: $50,000
Role: Entrepreneurial Lead
Collaborators: James M. Rehg (PI)
Period of Contract: 2/15/2016 - 7/31/2016

Title: *Real Time Objective Measurement and Reflection of Social Behaviors*
Agency/Company: Google Inc.
Total Dollar Amount: $22,500 plus seven Google glass devices
Role: co-PI
Collaborators: Jim Rehg (PI)
Period of Contract: 5/1/2014 – 6/30/2017

Title: *Exploring Movement-Based Games to Encourage Social Behaviors in Children with Autism*
Agency/Company: Georgia Tech GVU Center/Institute for People and Technology (Seed Grant)
Total Dollar Amount: $24,945
Role: PI
Collaborators: Brian Magerko (co-PI); Ashley Cheeck (co-PI); Victoria McBride (co-PI)
Period of Contract: 8/18/2014 – 5/2/2015

Title: *REU Supplement to Award #1029679*
Agency/Company: NSF
Total Dollar Amount: $19,200
Role: PI
Collaborators: James Rehg (co-PI), Gregory Abowd (co-PI), Mark Clements (Co-PI)
Period of Contract: 5/23/2013 – 5/22/2014

Title: *Toward new assessments of problem behaviors to increase treatment effectiveness*
Agency/Company: Georgia Tech Institute for People and Technology/Children's Healthcare of Atlanta (Seed Grant)
Total Dollar Amount: $31,343
Role: PI
Collaborators: Nathan Call (co-PI, Emory/CHOA/Marcus Autism Center)
Period of Contract: 1/1/2013 – 6/1/2015

Title: *STTR: Intelligent Data Capture and Assessment Technology for Developmental Disabilities*
Agency/Company: NIH
Total Dollar Amount: $ 2,176,782
Role: PI (Georgia Tech)
Collaborators: Ron Oberleitner (PI, Behavior Imaging Solutions Inc.), Rosa Arriaga (co-PI, GT), Chris Smith (PI, Southwest Autism Research & Resource Center)
Period of Contract: 8/17/2012 – 8/17/2014

Title: *REU Supplement to Award #1029679*
Agency/Company: NSF
Total Dollar Amount: $29,160
Role: PI
Collaborators: James Rehg (co-PI), Gregory Abowd (co-PI), Mark Clements (Co-PI)
Period of Contract: 5/7/2012 – 5/6/2013

Title: *Non-Invasive Gaze Estimation*
Agency/Company: Simons Foundation
Total Dollar Amount: $140,347
Role: co-PI
Collaborators: James Rehg (PI)
Period of Contract: 7/1/2011 – 1/1/2013

Title: *REU Supplement to Award #1029679*
Agency/Company: NSF
Total Dollar Amount: $24,000
Role: PI
Collaborators: James Rehg (co-PI), Gregory Abowd (co-PI), Mark Clements (Co-PI)
Period of Contract: 4/29/2011 – 4/28/2012

Title: *Expeditions in Computing Grant: Computational Behavioral Science: Modeling, Analysis, and Visualization of Social and Communicative Behavior*
Agency/Company: NSF
Total Dollar Amount: $9,999,246
Role: co-PI
GT Collaborators: James Rehg (PI), Gregory Abowd (co-PI), Mark Clements (Co-PI)
Period of Contract: 09/1/10 – 08/31/16

G4. As Senior Personnel or Contributor

Title: *Mild Cognitive Impairment Empowerment Program*
Agency/Company: Cox Foundation
Total dollar amount: $20 million
Role: Senior Personnel (Research and Programs Director, Technology Core)
Collaborators: Allan Levey (PI); Beth Mynatt (co-PI); Craig Zimring (co-PI)
Period of Contract: 5/1/2019 – 5/1/2023

Title: *Institute for Collaborative Assistance and Responsive Interaction for Networked Groups (AI-CARING)*
Agency/Company: NSF
Total dollar amount: $19,995,808
Role: Senior Personnel (Director of Translational Research)
Collaborators: Sonia Chernova (PI), Beth Mynatt (co-PI),
Period of Contract: 8/2021 – 8/2026

Title: *SBIR Phase II: Mobile Manipulation Hospital Service Robots*
Agency/Company: NSF
Total dollar amount: $1,199,909
Role: Senior Personnel
Collaborators: Bill Donges (PI), Andrea Thomaz (co-PI)
Period of Contract: 09/15/2017 – 08/31/2019

Title: *SBIR Phase I: Developing healthcare service robots to improve hospital workflows*
Agency/Company: NSF
Total dollar amount: $224,646
Role: Senior Personnel
Collaborators: Bill Donges (PI)
Period of Contract: 7/1/2016 – 12/31/2016

V. TEACHING

A. Academic Courses Taught

Semester	*Course*	*Number of Students*
Spring 2014	CS4803/8803 Introduction to Behavior Imaging Co-taught with Dr. James M. Rehg CIOS Overall Effectiveness for Rozga: 4.9/5 CIOS Overall Effectiveness for Course: 4.3/5	11

B. Individual Student Guidance

B1. Postdoctoral Fellows/Visiting Scholars

Shyam Rajagopolan, Ph.D. candidate at University of Canberra, Australia
Visit: August 2015 – December 2015

Patricia Perez-Fuster, Ph.D. candidate at University of Valencia, Valencia, Spain
Visit: August 15 – December 15, 2014

Zhe Liu, BS candidate at Tsinghua University, Beijing, China
Visit: July 1 – September 15, 2014

Mirko Gelsomini, M.S. candidate at Politecnico di Milano, Italy
Visit: August – December 2013

B2. PhD Student Dissertation Committees

Nina Moorman
Primary Advisor: Matthew Gombolay
Title TBD
Proposal date TBD

Gennie Mansi
Primary Advior: Mark Riedl
"Understanding the Intersections of AI, User Needs, and Law"
Successfully defended April 2026

Erin Hedlund Botti
Primary Advisor: Matthew Gombolay
Improving Learning from Demonstration in Real-World Scenarios
Successfully defended April 2024

Tamara Zubatiy
Primary Advisor: Elizabeth Mynatt
"I can help with that" – Designing flexible, personalized and proactive conversational agents for older adults.
Successfully defended March 2024

Eunji Chong, CS Ph.D.
Primary Advisor: James M. Rehg
Computational Methods for Measurement of Visual Attention from Videos towards Large-scale Behavioral Analysis.
Graduated Spring 2020

Sidni Vaughn, Psychology PhD
Primary Advisor: Jenny Singleton
Evaluating the predictive ability of early autism risk screeners: A longitudinal follow up study of developmental progress and diagnostic outcomes.
Graduated Summer 2019

Hrishikesh Rao, ECE Ph.D.
Primary Advisor: Mark Clements
Paralinguistic Event Detection in Children's Speech
Graduated Fall 2015

Arridhana Ciptadi, CS Ph.D.
Primary Advisor: James M. Rehg
Interactive Tracking and Action Retrieval to Support Human Behavior Analysis
Graduated Summer 2015

Jonathan Kim, ECE Ph.D.
Primary Advisor: Mark Clements
Classification of Affect Using Novel Voice and Visual Features
Graduated Fall 2014

Nazneen, CS Ph.D.
Primary Advisor: Gregory D. Abowd
Supporting In-Home Collection and Sharing of Behavior Specimens for Diagnostic Assessment of Children with Autism
Graduated Spring 2014

B3. MS students

Sangha Park, MS HCI
Project Option: *Deploying Smart Home Technologies to Support Aging in Place for Residents in a Retirement Community*
Graduated May 2025

Vicky Yu, MS Psychology
Longitudinal Trajectories of Early Coordinated Communication in Toddlers with Autism: Predicting Language Outcomes at Age Three
Graduated May 2025

Yi Qin, MS HCI
Design and Development of Home Monitoring App for Caregivers of Individuals with MCI
Graduated May 2024

Josey Benandi & Dipti Gupte, MS HCI
An At-Home Tool to Empower In-Person Socialization for People Diagnosed with Mild Cognitive Impairment and their Care Partners
Graduated May 2024

Sidni Vaughn, Psychology, MA Psych
Understanding developmental and risk-status effect on visual engagement: evaluation of infant play behavior
Graduated May 2017

Arpita Bhattacharya, MS CS
Designing Kinect games for encouraging social and motor behavior in children with Autism
Graduated May 2015

Amrita Gupta, MS CS
Disease Progression Modeling using Multi-Dimensional Continuous-Time Hidden Markov Models
Graduated December 2015

Andrew Harbor, MS HCI
Interactive Digital Storytelling for Children with Autism
Graduated December 2012

Darryl D. Prince, MS HCI
Operational Assessment and Usability Evaluation of BI Care and BI Capture
Graduated May 2010

B4. Undergraduate Students

Post-baccalaureate students/research assistants

Justin Bowen (B.A. in Psychology, Georgia Tech), April 2026 – present.
Emmelyn Picard (B.A. in Psychology, Georgia Tech), June 2025 – present.
Audrey Southerland (B.A. in Psychology, Georgia Tech), August 2012 – July 2026.
Francine Barrett (M.A., Ball State University), August 2025 – May 2026.
Vicky Yu (B.A.in Psychology, GT), May 2024 – May 2025.
Robert Johnson (B.A. in Psychology, GT), May 2024 – May 2025
Chanel Bridges (B.A. in Psychology, U. Michigan), August 2011 – August 2017
Chelsea Crow (B.A. in Psychology, Clayton State), July 2012 – December 2014
Zachary Jacokes (B.A. in Psychology, Emory), July 2013 – December 2014

Undergraduate students (research for credit)
**completed undergraduate thesis*

1. Abebe Hanamelle (Psychology, GT), January 2026 – present
2. Abby Davis (Psychology, GT), August 2025 – present
3. Mason Beyke (Psychology, GT), August 2025 – present
4. Rithika Durvasula (Psychology, GT), August 2025 – present
5. Kylie McCook (Psychology, GT), June 2025 – present
6. Pari Vardhineedi (Psychology, GT), June 2025 – present
7. Kaleah Brown (Psychology, GT), August 2024 – present
8. Emmelyn Pickard (Psychology, GT), June 2025 – May 2026.
9. Lillian Mertig (Psychology, GT), August 2024 – May 2026.
10. *Justin Bowen (Psychology, GT), June 2024 – December 2025
11. Jordan Arfanakis (Psychology, GT), January 2024 – December 2025
12. *Leah Enterkin (Psychology, GT), January 2024 – May 2025
13. Ricky Harper (Psychology, GT), January 2023 – May 2025
14. *Samira Cingirikonda (Psychology, GT), January 2023 – May 2025
15. *Vicky Yu (Psychology, GT), August 2021 – May 2024
16. *Robert Johnson (Psychology, GT), January 2023 – May 2024
17. Gabriella Stripling (Psychology, GT), August 2021 – May 2024
18. Sharon Lim (Psychology, GT), August 2021 – December 2023
19. Ruiyi (Alice) Gao (Computer Science, GT), August 2021 – May 2022
20. *Mary Brenna Cheney (Psychology, GT), August 2021 – May 2024
21. Andrea Sucre-Pardo (Psychology, GT), August 2021 –
22. Ruth Stolovitz (Psychology, GT), August 2021 – May 2023
23. Evonne Lau (Psychology, GT), August 2021 – May 2023
24. Leesan Sun (Psychology, GT), January 2021 – December 2022
25. Zara Schwartz (Psychology, GT), August 2018 – May 2022
26. Aishwarya Duggirala (Psychology, GT), September 2019 – December 2021
27. Alyssa S. Bardin (Psychology, GT), August 2018 – May 2021
28. Tanya Roy (Psychology, GT) August 2018 – May 2021
29. Pooja Parikh (Psychology, GT), January 2018 – May 2021
30. Caroline Delluge (Psychology, GT), August 2017 – May 2020
31. Lizzie Stubbs (Psychology, Georgia Tech), August 2015 – May 2019
32. Andrew English (Psychology, GT), January 2017 – May 2018

33. Rachel (Polly) Davis (Psychology, GT), January 2017 – May 2018
34. Elise Sims (Psychology, GT), January 2017 – May 2018
35. Sarah Nay (Psychology, GT), June 2015 – May 2017
36. Nathan Copp (Psychology, GT), August 2014 – December 2015
37. Paula Barranachea (Psychology, GT), August 2014 – May 2015
38. Allison Wu (Psychology, GT), August 2012 – August 2015
39. Hamid Habib (Psychology, GT), August 2012 – May 2015
40. Christina Pugh (Psychology, GT), August 2012 – February 2015
41. Rachael Ruskin (Psychology, GT), January 2013 – May 2014
42. Deborah Ziskend (Psychology, GT), January 2012 – May 2013
43. Zhefan Ye (Computer Science, GT), January 2012 – May 2013
44. Anita Hasni (Psychology, GT), August 2011 – May 2012
45. Fatima Dhanani (Psychology, GT), April 2012 – August 2012
46. Anne Yoder (Psychology, Boston University), Summer 2012
47. Connelly Crowe (Psychology, GT), October 2010 – December 2011
48. Audrey Southerland (Psychology, GT), January 2011 – May 2012

C. Other Teaching Activities

Dr. Rozga prepared and delivered lectures on autism and developmental psychology for the Computational Behavior Science Summer Institute (summer 2012). This was a two-week summer school designed to introduce computing students to the opportunities of developing tools to support the quantitative and objective measurement of human behavior. The goal of the lectures was to introduce students to important topics in the in the study of autism and to research methods used by psychologists to study this condition, and to explore opportunities for computing to impact research in this space.

Dr. Rozga also worked with colleague Jim Rehg to develop and teach a new special topic course on computational behavioral science (*Introduction to Behavior Imaging*). The goal was to introduce students to behavior imaging technologies for modeling, analyzing, and visualizing social and communicative behavior. The course was evenly split between lectures on developmental psychology/autism and lectures on technical content. Dr. Rozga created the domain content lectures. Her slide decks have been used in subsequent offerings of the course.

VI. Outreach and Service

A. Professional Contributions

1. Co-Organizer, CHI 2025 Workshop, *"Technology Mediated Caregiving for Older Adults Aging in Place.*" April 2025.
2. Co-Organizer and Program Chair, 2024 AAAI Fall Symposium, *"AI for Aging in Place."* November 2024.
3. Editorial Board, *Focus on Autism and Developmental Disabilities*, 2010-2023
4. Ad hoc reviewer for CHI, SIGCHI, Ubicomp, IEEE Pervasive Computing, HRI, Journal of Personal and Ubiquitous Computing, 2010 – present
5. Ad hoc reviewer for Journal of Autism and Developmental Disorders, Autism, Autism Research, Journal of Child Psychology and Psychiatry, Developmental Psychology, Developmental Science, 2008 – present

6. Member, Society for Research in Child Development, International Society for Autism Research, 2001-present
7. Organizer, AI-CARING Spring 2022 Student Symposium, March 2022
8. Organizer, AI-CARING/Emory cross-training *Workshop on AI Technologies to Support Individuals Experiencing Cognitive Decline and Their Care Networks,* February 2022
9. Member, Atlanta Autism Consortium, 2008 – 2018
10. Founding member & leader, Research Collaboration Special Interest Group, Atlanta Autism Consortium, 2012-2014.
11. Leader, Developmental Considerations Working Group, INSAR Special Interest Group on Minimally Verbal Individuals with Autism, 2014
12. Member, Program Committee, International Working Conference on Advanced Visual Interfaces, 2014
13. Co-organizer, CHI workshop on Supporting Children with Complex Communication Needs, 2014
14. Reviewer, IPaT-CHOA Seed Grant Program, 2012, 2013
15. National Science Foundation, Research Project Reviewer, 2012, 2013
16. Co-Organizer, *Open Workshop on Computational Methods for Quantifying Social and Communicative Behavior in Autism*, USC Virterbi School of Engineering, September 28th, 2012
17. Co-Organizer, summer school Computational Behavioral Science: *Modeling, Analysis, and Visualization of Social and Communicative Behavior*, Center for Discovery, NY, June 5th-8th, 2012.

B. Public Service

1. Organized a visit to Georgia Tech for trainees in the Georgia Leadership Education Neurodevelopmental and related Disabilities (GaLEND) Program at GSU. The trainees listened to a series of presentations on relevant ongoing work at GT pertaining to the application of technology to developmental disabilities, followed by a discussion. May 2013, 2015.

2. Organized the Atlanta Autism Consortium Annual Research Showcase at Georgia Tech. This event, which includes several invited talks along with an extended poster session, serves two key functions. First, it provides an opportunity for local autism researchers, especially students and junior researchers, to showcase their research. Second, because it is open and advertised to the general public, it enables various autism stakeholders in the Atlanta area - individuals with autism and their families, educators, clinicians - to hear about relevant work being conducted by members of the local research community. May 2012, 2013.

C. Institute Contributions

1. School of Interactive Computing Chair Advisory Committee (SAC) 2023 - 2025
2. Member, College of Computing Research Faculty Promotion Committee, 2021 – present
3. Member, School of Interactive Computing Chair Search Committee, 2017
4. Chair, College of Computing Research Faculty Advisory Council 2015 – 2017

5. School of Interactive Computing representative to Faculty Assembly 2013 – 2016
6. Member, School of Interactive Computing Chair Advisory Committee (SAC), 2010 – 2014