

## Alicja Radkowska

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**Polish Academy of Sciences**  
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00-378 Warszawa

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### EDUCATION

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| <b>2016 - present</b> | <b>Ph.D. Student</b><br>Faculty of Psychology, University of Warsaw                      |
| <b>2015</b>           | <b>Master of Science in Psychology</b><br>Faculty of Psychology, University of Warsaw    |
| <b>2013</b>           | <b>Bachelor in Cultural Studies</b><br>Institute of Polish Culture, University of Warsaw |

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### PUBLICATIONS

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- López Pérez, D., Tomalski, P., **Radkowska, A.** Selective changes in complexity of visual scanning for social stimuli in infancy. *Frontiers in Psychology* (in review).
- López Pérez, D., Tomalski, P., **Radkowska A.**, Ballieux, H., and Moore, D.G. (2020). Efficiency of scanning and attention to faces in infancy independently predict language development in a multi-ethnic and bilingual sample of 2-year-olds, *First Language*, November 2020.  
<https://doi.org/10.1177/0142723720966815>
- López Pérez, D., **Radkowska, A.**, Rączaszek-Leonardi, J., i Tomalski, P. (2018). Beyond Fixation Durations: Recurrence Quantification Analysis Reveals Spatiotemporal Dynamics of Infant Visual Scanning. *Journal of Vision* 18 (5). <https://doi.org/10.1167/18.13.5>
- López Pérez, D., Leonardi, G., Niedźwiecka, A., **Radkowska, A.**, Rączaszek-Leonardi, J. i Tomalski, P. (2017). Combining Recurrence Analysis and Automatic Movement Extraction from Video Recordings to Study Behavioural Coupling in Face-to-Face Parent-Child Interactions, *Frontiers in Psychology*, vol. 8, nr 2228, 1-14. <https://doi.org/10.3389/fpsyg.2017.02228>

- Nomikou, I., Leonardi, G., **Radkowska, A.**, Rączaszek-Leonardi, J. i Rohlfing, K., (2017). Taking up an active role: Emerging participation in early mother-infant interaction during peek-a-bow routines. *Frontiers in Psychology*, vol. 8, nr 1656. <https://doi.org/10.3389/fpsyg.2017.01656>
- Zubek, J., Denkwicz, M., Dębska, A., **Radkowska, A.**, Komorowska-Mach J., Litwin, P., Stępień, M., Kucińska, A., Sitarska, E., Komorowska, K., Fusaroli, R., Tylen, K., Rączaszek-Leonardi, J. (2016). Performance of language-coordinated collective systems: A study of wine recognition and description. *Frontiers in Psychology*, 7. <https://doi.org/10.3389/fpsyg.2016.01321>

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## PRESENTATIONS

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- López Pérez, D., **Radkowska A.**, Ballieux, H., Deirdre B., Moore, D.G. & Tomalski, P. *Efficiency of scanning in infancy in the presence and absence of faces differentially predicts expressive and receptive language in toddlers*. International Congress of Infant Studies, virtual congress, 6-9.07.2020.
- Radkowska, A.**, Niedzwiecka, A., Ramotowska, S., Malinowska, A., Kawa, R., Pisula, E. & Tomalski, P. *Dyadic Visual Attention during Interactions of Infant Siblings and Their Parents in Relation to the Child's Attention Disengagement and Clinical Symptoms*. International Society for Autism Research Annual Meeting, Rotterdam (Holland), 9-12.05.2018.
- Radkowska, A.**, Ramotowska, S., Malinowska, A. & Tomalski, P. *Sensory processing in 10-month-olds have predicted their visual attention engagement during parent-infant interactions at 14 months*. International Congress on Infant Studies, Philadelphia (USA), 30.06.-3.07.2018.
- Zubek J., **Radkowska, A.**, Dębska, A., Denkwicz, M. & Rączaszek-Leonardi, J. *Language as a coordinative tool in wine recognition and description: influences from two time-scales*. 2<sup>nd</sup> Conference of the International Association for Cognitive Semiotics, Lublin (Poland), 20-22.06.2016.

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## POSTERS

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- Radkowska, A.**, Niedzwiecka, A., Malinowska-Korczak, A., Pisula, E. & Tomalski, P. *Triadic parent-child interactions in siblings at elevated likelihood of autism spectrum disorder in the first two years of life*. Poster presented at the International Congress of Infant Studies, virtual congress, 6-9.07.2020.
- López Pérez, D., **Radkowska, A.**, Malinowska-Korczak, A. & Tomalski, P. *Automatic movement quantification in siblings of children with ASD at 10 months relates to developmental outcomes at 36 months*. Poster presented at the International Congress of Infant Studies, virtual congress, 6-9.07.2020.

- Radkowska, A.,** Niedźwiecka, A., Malinowska-Korczak, A., Ramotowska, S., Kawa, R., Pisula, E. & Tomalski, P. *Joint object play in 10-month-olds predicts their developmental outcomes at the age of 3 years - study in siblings of children with ASD.* Poster presented at the Budapest CEU Conference on Cognitive Development, Budapest (Hungary), 9-11.01.2020.
- Radkowska, A.,** López Pérez, D., Nomikou, I., Rączaszek-Leonardi, J. & Rohlfing, K. *Dynamics of mother-infant vocal interaction: Vocal development as a function of social feedback in three to eight month olds.* Poster presented at the 48th Annual Meeting of the Jean Piaget Society, Amsterdam (Holland), 31.05-2.06.2018.
- López Pérez, D., **Radkowska A.,** Rączaszek-Leonardi, J. & Tomalski, P. *Can nonlinear dynamics shed more light on the visual scanning of infants at high risk of autism spectrum disorders?* Poster presented at the International Congress on Infant Studies, Philadelphia (USA), 30.06.-3.07.2018.
- Radkowska, A.,** Malinowska, A., Ramotowska, S., López Pérez, D. & Tomalski, P. *Differences in sensory processing between toddlers at high and low-risk for Autism Spectrum Disorders and its relation to visual attention during parent-infant interactions.* Poster presented at the Early Typical and Atypical Development Brainview Conference, London (UK), 20.09.2018.
- Radkowska, A.,** Niedźwiecka, A., Parekh, R., Malinowska, A. & Tomalski, P. *Attention to objects in infants at risk for autism and their parents.* Poster presented at the 18th European Conference on Developmental Psychology, Utrecht (Holland), 29.08-1.09.2017.
- Lopez-Perez, D., **Radkowska, A.,** Rączaszek-Leonardi, J. & Tomalski, P. *Recurrence Quantification Analysis of infant Eye Tracking Data.* Poster presented at the 18th European Conference on Developmental Psychology, Utrecht (Holland), 29.08-1.09.2017.
- Radkowska, A.,** Nomikou, I., Leonardi, G., Rohlfing, K. J. & Rączaszek-Leonardi J. *Scaffolding vocal development: maternal responsiveness to early speechlike vocalizations in three, six and eight month olds.* Poster presented at the 4<sup>th</sup> International Congress for the Study of Child Language, Lyon (France), 17-21.07.2017.

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**PROFESSIONAL and RESEARCH EXPERIENCE**


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- 10/2019 – present**    **PhD position – Decoupling of Motor, Visual and Vocal Activity during Dyadic Social Interactions;** research grant Sonata BIS, National Science Center, PI: Przemysław Tomalski, Ph.D., Polish Academy of Sciences
- Preparing research procedures, overseeing collection of data and data analyses of parent-infant interactions with mobile sensors, head cameras and microphones;
  - Conduct experimental sessions in Lab utilizing mobile sensors
  - Prepare procedures and conduct home sessions with infants utilizing mobile sensors and head cameras
  - Adaptation of Early Motor Questionnaire (Libertus & Landa, 2013)
  - Analysis of parent-infant coordination in interactions
  - Collection of day-long audio recordings at the age of 2 with the use of wearable devices
  - Coordination of international cooperation with research team working on algorithms for automatic annotation of infant vocalizations
  - Statistical analysis of longitudinal data collected in the project
  - Authored and co-authored conference presentations and research papers
  - Provide guidance and support for undergraduate and master's thesis research projects
- 05/2016 – 09/2018**    **Position of Science Assistant, University of Warsaw, Department of Psychology**
- 05/2016 – 09/2018**    **PhD position - *Early semantic development: Linking language development to emerging participation in social events***, Polish-German research grant BEETHOVEN, National Science Center & German Research Foundation, PIs: Joanna Rączaszek-Leonardi, Ph.D., University of Warsaw; Katharina Rohfling, Ph.D., Paderborn University
- Coded parent-infant interactions (4-12 months) in Elan
  - Coded infant vocalizations in Praat
  - Trained students for coding behavioral data, coordinated and supervised their work
  - Assisted in planning research and analyses of data
  - Conducted statistical analyses on coordination of infant vocalizations and parental speech

- Authored and co-authored conference presentations and research papers
- Organized Project Meetings and Conference

**10/2015 – 09/2019 Research Assistant – Neurocognitive Development Lab, BabyLAB UW, Warsaw University, Department of Psychology Supervisor: Przemysław Tomalski, Ph.D.**

- Conducted experimental sessions with infants
- Coded parent-infant interactions (5-24 months) in Observer XT
- Co-developed coding scheme, conducted reliability checks between coders
- Trained students for coding behavioral data, coordinated and supervised their work
- Conducted statistical analyses on visual attention from parent-infant interactions
- Authored and co-authored conference presentations and research papers
- Provide guidance and support for undergraduate and master's thesis research projects

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## RESEARCH FUNDING

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**01/2021- 12/2021 Visual attention and touch in interactions of hearing infants with deaf mothers, PhD Students Research Found, University of Warsaw**

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## TEACHING EXPERIENCE

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**02/2020 – 06/2020 Developmental Psychology, Warsaw University, Department of Psychology**  
30 hours workshop, 2 groups of students

**02/2018– 06/2018 Developmental Psychology, Warsaw University, Department of Psychology**  
30 hours workshop, 3 groups of students

**02/2017 – 06/2017 Introduction to Psychology, Warsaw University, Department of Applied Linguistics**  
30 hours course, 1 group of students

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**SCHOLARSHIPS**


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- 09/2019**      **The University's Integrated Development Programme Scholarship** for increasing international mobility of students
- 02/2018– 06/2018** **Science Scholarship at the University of Warsaw, Year: 2016/2017, 2017/2018, 2018/2019, 2020/2021**

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**STATISTICAL and METHODOLOGICAL COURSES**


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- 03/2021**      **Training MPlus courses, Falcon Training**, 2-days course
- Latent Growth Curve Modelling using MPlus
  - Multilevel Modeling using MPlus
- 09/2019**      **SEM with MPlus course, Cambridge (UK)**, 1-week course
- Path analysis, Factor analysis, Multiple Group Analysis
  - SEM with longitudinal data, auto-regressive models, latent growth curve models, group based-trajectory modelling
- 06/2018**      **Finding Structure in Time, workshop at the *International Congress on Infant Studies*, Philadelphia (USA)**, 1 day course
- Introduction to methods such as: RQA, CRQA, Granger Causality
- 10/2018**      **Summer Statistical School, The University's Integrated Development Programme**, Warsaw University, 10 days course
- Regression, path analysis, mediation and moderation, CFA, EFA, SEM
- 02/2018–06/2018** **Multilevel Modelling in R** , 30h academic course
- Fixed and random effects models, cross-level interactions, models for longitudinal data
- 09/2017 – 02/2018** **Recurrence Quantification Analysis in R**, 30h academic course
- Introduction to categorical and continuous RQA and CRQA
- 06/2017**      **Dynamical methods of time series analysis**, 1-day course, Brainview ITN workshop, Warsaw
- Introduction to RQA and CRQA

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**SKILLS**

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***Statistical programs and languages:*** SPSS, R, MPlus

***Statistical analyses:*** MLM, GEE, SEM, basic RQA

***Annotation programs:*** Observer XT, Elan, Praat

***Behavioral data analyses:*** coding visual attention, infant vocalizations, parental touch, movement; developing coding scheme; calculating reliability; supervising coding

***Language:*** English (C1), Italian (B2), French (B1)

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**INTERNSHIPS**

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**10/2012 – 09/2013 Internship at Family Therapy Unit in Bemowo District in Warsaw City**

**10/2012 – 06/2013 Internship at Family Therapy Center at Warsaw University**