

MAGDALENA MATYJEK

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Motivated researcher driven by the passion for social cognition and neuropsychology with a special interest in autism. Experienced in EEG, eye tracking, questionnaires, behavioural measures. Collected, preprocessed, and analysed EEG data from 300+ participants, and behavioural data from 10K+ participants. Guided by high ethical standards and responsible science for the community.

EDUCATION

Ph.D. Oct. 2016 – Feb. 2022	Clinical Psychology of Social Interaction group, Berlin School of Mind and Brain at Humboldt-Universität zu Berlin , Germany. Dissertation: "Social and Non-Social Reward Processing in Autism and Autistic Traits"
M.Sc. Oct. 2013 – Jun. 2015	Magister (equivalent of M.Sc.) in Cognitive Science, Jagiellonian University , Krakow, Poland. Thesis: "In My Mind's Eye": Game-Induced Emotions Influence Face Processing in a Gaze-Cueing Task: an ERP Study.
Exchange Sep. 2014 – Feb. 2015	Mei:CogSci - Middle European Interdisciplinary Master Programme in Cognitive Science at University of Vienna , Austria.
Exchange Jul. 2014 – Dec. 2013	Australian-European Network semester abroad in Clinical Neuropsychology at University of Wollongong , Australia.
B.Sc. Oct. 2010 – Jun. 2013	Licencjat (equivalent of B.Sc.) in Cognitive Science, Jagiellonian University , Krakow, Poland.

WORK EXPERIENCE

Postdoctoral researcher Since Oct. 2021	Multisensory Research Group, Center for Brain and Cognition, Universitat Pompeu Fabra , Barcelona, Spain. Project: "Multisensory integration in autism". Experiment design and implementation, stimuli development, data processing and analysis.
Research assistant 2015 – 2017	Neurocognitive Processes Lab, Jagiellonian University , Krakow, Poland. Responsibilities: Data collection, eye-tracking experiment implementation, EEG and eye tracking preprocessing, ERP and behavioural analysis.
Research assistant 2015 – 2016	University of Social Sciences and Humanities , Warsaw, Poland. Responsibilities: behavioural statistical analysis from 10K+ participants.
Research assistant 2014 – 2015	ScanUnit lab, University of Vienna , Austria. Responsibilities: Data collection with autistic participants and EEG preprocessing.

PUBLICATIONS AND MANUSCRIPTS

* Shared first authorship; OA = open access

- Matyjek, M.** (2022), [Social and Non-social Reward Processing in Autism and Autistic Traits](#). (Doctoral dissertation, Humboldt-Universität zu Berlin), edoc-server. OA.
- Matyjek, M.**, Bayer, M., Dziobek, I. (2022), [Reward Responsiveness across Autism and Autistic Traits – Evidence from Neuronal, Autonomic, and Behavioural Levels](#). medRxiv. OA.
- Schneider, J., **Matyjek, M.**, Dziobek, I., Weigand, A., Brick, T. R. (2022), [Subjective and Objective Difficulty of Emotional Facial Expression Perception from Dynamic Stimuli](#). PLOS ONE, 17(6): e0269156. OA.
- Boegl, K.*, **Matyjek, M.***, Naumann, S.*, Scholar Minds Berlin, Dziobek, I. (2022), [Update on the Mental Health Crisis in Academia: Effects of the COVID-19 Pandemic on Early Career Researchers' Mental Health and Satisfaction with PhD training](#). PsyArXiv. OA.
- Matyjek, M.**, Bayer, M., Dziobek, I. (2021), [Pupillary Responses to Faces are Modulated by Familiarity and Rewarding Context](#). Brain Sciences, 11, 794. OA.
- Matyjek, M.**, Kroczeck, B., Senderecka, M. (2021), [Socially Induced Negative Affect Modulates Early Face Perception, but not Gaze-Cued Attention](#). Psychophysiology, 00:e13876. OA.
- Senderecka, M., **Matyjek, M.**, Kroczeck, B., Ociepka, M. (2021), [Socially Induced Negative Emotions Elicit Neural Activity in the Mentalizing Network in a Subsequent Cognitive Task](#). Neuroscience. OA.
- Matyjek, M.***, Meliss, S.*, Dziobek, I., Murayama, K. (2020), [A Multidimensional View on Social and Non-social Rewards](#). Frontiers in Psychiatry, 11, 818. OA. Also [preprint available](#).
- Matyjek, M.**, Bayer, M., Dziobek, I. (2020), [Autistic Traits Affect Reward Anticipation but not Reception](#). Scientific Reports 10, 8396. OA.
- Senderecka, M., Ociepka, M., **Matyjek, M.**, Kroczeck, B. (2018), [Post-Error Brain Activity Correlates with Incidental Memory for Negative Words](#). Frontiers in Human Neuroscience, 12, 178.
- Matyjek, M.** (2015), The roles and reciprocal influences of visual fixations and emotional cues in social settings, Pawłowicz J.A. & E. Szafranko (eds.), KNMAIU KRESKA, Uniwersytet Warmińsko-Mazurski w Olsztynie Polskie Towarzystwo Historyczne (post-conference publication).

SCIENTIFIC PRESENTATIONS

Conference talks:

- Matyjek M** (2022, July). Responsiveness to social and non-social rewards in autism and autistic traits. Within symposium "Learning in social and nonsocial contexts in Autism". ESCAN 2022, Vienna, Austria (symposium talk by invitation).
- Matyjek M**, Bayer, M., Gawronska S., Dziobek, I. (2021, March). Brain Responses to Rewards Across the Autism Spectrum. 1st Digital Scientific Conference Autism Spectrum (WTAS), Germany.
- Matyjek M** (2019, November). Reward Responsiveness in Autistic Traits. The First Official European Congress on Clinical Psychology and Psychological Treatment of EACLIPT, Dresden, Germany (symposium talk by invitation).
- Matyjek M** (2019, May). Early and Late Anticipation of Rewards Across Autistic Traits. Hengstberger Symposium: Social Interaction, Heidelberg, Germany.
- Matyjek M** (2018, October). How Does the Brain "Like" Rewards? Science Polish Perspectives 2018 Berlin.
- Matyjek M**, Bayer, M., Dziobek, I. (2018, April). The Role of Autistic Traits in Reward Anticipation. NEURONUS 2018 IBRO Neuroscience Forum, Krakow, Poland.
- Matyjek, M.** (2015, April). The Roles and Reciprocal Influences of Visual Fixations and Emotional Cues in Social Settings. Talk at XLIV International Seminar of Students' Associations, Olsztyn, Poland.

Conference posters:

- Matyjek M**, Bayer, M., Gawronska S., Dziobek, I. (2021, March). Differential Impact of Autistic Traits and Social Anxiety on Reward Responsiveness Across the Autism Spectrum. 1st Digital Scientific Conference Autism Spectrum (WTAS), Germany.
- Matyjek M**, Bayer, M., Dziobek, I. (2019, March). Brain and Pupil Responses to Social and Monetary Rewards Across Autistic Traits. MindBrainBody Symposium 2019, Berlin, Germany.
- Matyjek M**, Bayer, M., Dziobek, I. (2018, May). The Role of Autistic Traits in Reward Anticipation. The Social and Affective Neuroscience Society Annual Meeting, New York, USA.
- Matyjek M**, Bayer, M., Dziobek, I. (2018, March). The Role of Autistic Traits in Reward Processing. 11th Wissenschaftliche Tagung Autismus-Spektrum, Frankfurt, Germany.
- Matyjek M**, Bayer, M., Dziobek, I. (2017, October). Reward-related processing of social and non-social cues in neurotypical participants. Science: Polish Perspectives Meetup Berlin, Germany.
- Matyjek M**, Bayer, M., Dziobek, I. (2017, June). Reward-Related Processing of Social and Non-Social Cues in Healthy Participants. Poster presented at Aegina Summer School 2017 "The Social Brain: embodiment and culture", Aegina, Greece.
- Matyjek M**, Bayer, M., Dziobek, I. (2017, June). Reward-Related Processing of Social and Non-Social Cues in Healthy Participants. Retreat of the Berlin School of Mind and Brain the Leslie and Gonda (Goldschmied) Multidisciplinary Brain Research Center (Israel) in Blankensee, Blankensee, Germany.
- Matyjek M** (2017, April). Explicit vs. Implicit Theory of Mind: A Critical Evaluation. Evidence from Autism Research. IX Krakow Cognitive Science Conference: Consciousness, Krakow, Poland.
- Matyjek M**, Ciechanowska I., Cislik P., Grzadziel A., Jastrzebski J., Popeda B., Prochnicki M., Wlaszczyk A. and Zguda P. (2016, June). The Role Of Eye-movements in Perceptual Switching in Ambiguous 2D and 3D Figures. MEi:CogSci Conference 2016, Vienna, Austria.
- Matyjek, M.**, KroczeK, B., Senderecka, M. (2016, April). Prior Socio-affective Experiences Modulate the Perception of Otherwise Neutral Faces. NEURONUS 2016 IBRO & IRUN Neuroscience Forum, Krakow, Poland.
- Matyjek, M.**, KroczeK, B., Senderecka, M. (2015, October). Facing Others: Game-Induced Emotions Influence the Perception of Other's Facial Cues. IV Science Polish Perspectives, Cambridge, UK.
- Matyjek, M.**, KroczeK, B., Senderecka, M. (2015, June). Induced Emotions Influence the Utilisation of Gaze Direction Cues in a Modified Posner Task. MEi:CogSci Conference 2015, Ljubljana, Slovenia.
- Matyjek, M.**, Strzelczyk, M. (2015, March). The Influence of Emotional Cues on Visual Attention to Face and Gestures in a Natural Social Setting. Interdisciplinary College 2015 "From Neuron to Person: Assembling Behavior and Cognition" in Günne, Germany.

TEACHING

- Guest lectures and tutorials: **eye tracking** for the Berlin School of Mind and Brain (M&B) MSc program (January 2020, 2021, 2022)
- Guest lectures: **social interactions and autism** for the SCAN MSc program at Freie Univesitaet, with K. Boegl and S. Lipinski (February 2020 and 2021)
- Guest tutorial: **EEG data preprocessing** for M&B MSc program (June 2020)
- Course: **Empirical research training** for M&B MSc program with I. Dziobek and M. Bayer (2017)
- Guest lecture: **event-related brain potentials** for SWPS psychology MSc program (December 2015)

FUNDING AND AWARDS

- **Grant for activities to increase the social impact of research**, Universitat Pompeu Fabra, Barcelona, Spain (Mar. - Dec. 2022). Funding awarded for project "Building bridges for autism: closing the gap between the autism community, society and research".
- **Maria Skłodowska-Curie EUTOPIA Science and Innovation COFUND Postdoctoral Fellowship**, European Union's Horizon 2020 Research and Innovation Programme (945380); Project "Multisensory Integration of Dynamic and Relevant Social Information in Autism Spectrum Disorders" at University Pompeu Fabra, Barcelona, Spain (Oct. 2021 – Oct. 2023).
- **The German Academic Exchange Service (DAAD) PhD funding: Research Grants - Doctoral Programmes in Germany** (Oct. 2017 – Oct. 2019, Oct. 2019 – Oct. 2020, Oct. 2020 – March 2021, March 2021 – Oct. 2021)
- **Rector's scholarship for the best students at Jagiellonian University**, Krakow, Poland (Oct. 2011 – June 2012 and in Oct. 2012 – June 2013).
- **Erasmus + scholarship** for semester abroad at Mei:CogSci - Middle European Interdisciplinary Master Programme in Cognitive Science at University of Vienna, Austria (Sept. 2014 – Feb. 2015);
- **Australian-European Network full tuition scholarship** for semester abroad in Clinical neuropsychology at University of Wollongong, Australia (July 2013 – Dec. 2013);
- **Travel grants for conferences**: SIPS 2019 pre-conference workshop (Jan. 2019), 11th Wissenschaftliche Tagung Autismus-Spektrum (Mar. 2018).
- **Best talk awards** at: 1) Science Polish Perspectives 2018 Berlin (Oct. 2018), 2) NEURONUS 2018 IBRO Neuroscience Forum (Apr. 2018), 3) XLIV International Seminar of Students' Scientific Associations (Apr. 2015);
- **Best poster awards** at: 1) Annual Poster Presentations of the Berlin School of Mind and Brain (Dec. 2018), 2) NEURONUS 2016 IBRO & IRUN Neuroscience Forum (Apr. 2016).
- **Distinction** for the Master's thesis: "In My Mind's Eye": Game-Induced Emotions Influence Face Processing in a Gaze-Cueing Task: an ERP Study.

SUPERVISION

- **Master student lab rotations**: R. Flechtner (2017), I. Patronnikov (2018-2019), S. Gawronska (2018-2020), T. Waclawek (2019-2020), R. Oznur (2019-2020), F. Taheri (2020-2021)
- **Master's thesis**: R. Flechtner (2020-2021)
- **Doctoral student lab rotations**: J. Sander (2021)
- **Research assistants**: P. Ten (2022)

COMMUNITY AND VOLUNTEER WORK

- **Reviewer for**: Psychophysiology, PLOS ONE, Social Neuroscience, Frontiers in Psychiatry, Cognitive Processing
- **Examination committee member**: Master of Brain and Cognition - defences (July 2022), Universitat Pompeu Fabra
- **Representative** of the first cohort of the MSCA-EUTOPIA-SIF Postdoctoral Fellowship.
- **Volunteering with autistic children and adults**: Autisme La Garriga (May 2022), Big Fat Smile, Wollongong, Australia (Sep-Nov 2013)

EXTRACURRICULAR ACTIVITY

- **Scholar Minds Berlin - a mental health initiative for PhD students.** I am one of the founding members and an active contributor. More information at: scholar-minds.net.
- **Science communication:** See lay summaries of all published research at: lenamatyjek.com/blog.
- **Popular-science articles:** "Autistic traits can influence social motivation" for the Polish Press Agency (2017), and "How to read others" for the Copernicus Festival 2017: Emotions (2017).
- **Social engagement:** Panelist at "Doctoral opportunities in Germany" (German Ministry of Education and Research) and "Digital credentials in academia" (DAAD, 2021).
- **Summer Schools:** "Berlin - Oxford Summer School on Open, Transparent, And Reproducible Research in The Life Sciences", Germany (2018), "The Social Brain: embodiment and culture", Aegina, Greece (2017) & Interdisciplinary College "From Neuron to Person: Assembling Behavior and Cognition" in Günne, Germany (2015)
- **Membership:** The European Society for Cognitive and Affective Neuroscience (ESCAN; from 2020); The European Society of Social and Affective Neuroscience (ESSAN; from 2020); Society for Psychophysiological Research (SPR; from 2021).

PROFESSIONAL SKILLS

- **Programming skills:** R, R Markdown, Matlab, \LaTeX , jspsych (other: ELAN, Brain Vision Analyzer)
- **Data analysis/stats:** LMM, GLMM, GAMM (in R)
- **Personal skills:** highly organised, motivated and driven by passion for research, scrupulous, persistent.
- **Language skills:** native Polish, fluent English, basic German, intermediate Spanish
- **Certified academic soft-skill courses:** Grant application writing, Speaking with Confidence and Impact, Scientific Presenting, Scientific Writing, Data Publishing, Research Data Management, and Career Planning and Navigation on your way to Professorship, Career Booster.
- **Project and personnel management:** IT, HR, PM at Consus Carbon Engineering Sp. z o.o. (2011-2014)
- **IT technician degree,** Profesja Centrum Kształcenia Kadr, Krakow, Poland (2011-2013)