

MAGDALENA MATYJEK

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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
student exchange Sep. 2014 – Feb. 2015	Mei:CogSci - Middle European Interdisciplinary Master Programme in Cognitive Science at University of Vienna, Austria
M.Sc. Oct. 2013 – Jun. 2015	Magister (equivalent of M.Sc.) in Cognitive Science, Jagiellonian University, Krakow, Poland
student 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

SELECTED WORK EXPERIENCE

Postdoctoral researcher Since Oct. 2021	Multisensory Research Group, Center for Brain and Cognition, Universitat Pompeu Fabra, Barcelona, Spain
Research assistant 2015 – 2017	Neurocognitive Processes Lab, Jagiellonian University, Krakow, Poland
Research assistant 2015 – 2016	University of Social Sciences and Humanities, Warsaw, Poland
Research assistant 2014 – 2015	ScanUnit lab, University of Vienna, Austria

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. <https://edoc.hu-berlin.de/handle/18452/24993>, OA.
- Matyjek, M.**, Bayer, M., Dziobek, I. (2022), Reward Responsiveness across Autism and Autistic Traits – Evidence from Neuronal, Autonomic, and Behavioural Levels. medRxiv. doi.org/10.1101/2022.02.11.22270801, 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. doi.org/10.1371/journal.pone.0269156, 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. doi.org/10.31234/osf.io/nv4ut, OA.
- Matyjek, M.**, Bayer, M., Dziobek, I. (2021), Pupillary Responses to Faces are Modulated by Familiarity and Rewarding Context. Brain Sciences, 11, 794. doi.org/10.3390/brainsci11060794, OA.
- Matyjek, M.**, Kroczyk, B., Senderecka, M. (2021), Socially Induced Negative Affect Modulates Early Face Perception, but not Gaze-Cued Attention. Psychophysiology, 00:e13876. doi.org/10.1111/psyp.13876, OA.

- Senderecka, M., **Matyjek, M.**, KroczeK, B., Ociepka, M. (2021), Socially Induced Negative Emotions Elicit Neural Activity in the Mentalizing Network in a Subsequent Cognitive Task. *Neuroscience*. doi.org/10.1016/j.neuroscience.2021.06.032, OA.
- Matyjek, M.***, Meliss, S.*, Dziobek, I., Murayama, K. (2020), A Multidimensional View on Social and Non-social Rewards. *Frontiers in Psychiatry*, 11, 818. doi.org/10.3389/fpsy.2020.00818, OA. Also preprint available at: osf.io/gjfr5.
- Matyjek, M.**, Bayer, M., Dziobek, I. (2020), Autistic Traits Affect Reward Anticipation but not Reception. *Scientific Reports* 10, 8396. doi.org/10.1038/s41598-020-65345-x, OA.
- Senderecka, M., Ociepka, M., **Matyjek, M.**, KroczeK, B. (2018), Post-Error Brain Activity Correlates with Incidental Memory for Negative Words. *Frontiers in Human Neuroscience*, 12, 178. doi.org/10.3389/fnhum.2018.00178.

SCIENTIFIC PRESENTATIONS

Conference talks:

- Matyjek M** (2022, July - accepted). Responsiveness to social and non-social rewards in autism and autistic traits. An invited talk within symposium "Learning in social and nonsocial contexts in Autism". European Society for Cognitive and Affective Neuroscience 2022 (ESCAN), Vienna, Austria.
- 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 EACLIP, Dresden, Germany.
- 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.

Selected 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** (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., Wlasczyk 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.

FUNDING AND AWARDS

- **Grant for activities to increase the social impact of research**, Universitat Pompeu Fabra, Barcelona, Spain (March 2022). Funding awarded for project "Building bridges for autism: closing the gap between the autism community, society and research".
- **EUTOPIA Science and Innovation Postdoctoral Fellowship**, European Union's Horizon 2020 Research and Innovation Programme, Marie Skłodowska-Curie COFUND (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.

TEACHING

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

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)

COMMUNITY SERVICE

- **Reviewer for:** Psychophysiology, PLOS ONE, Social Neuroscience, Frontiers in Psychiatry

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 (ESSANl from 2020); Society for Psychophysiological Research (SPR; from 2021).

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)