

# MAGDALENA MATYJEK

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## EDUCATION

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Ph.D. (2016 - ongoing)	Doctoral program at the Berlin School of Mind and Brain at Humboldt-Universität zu Berlin. Clinical Psychology of Social Interaction group. Doctoral project: Reward Responsiveness in Autism Spectrum Conditions
M.S., Cognitive Science	Jagiellonian University, Krakow, Poland (2013-2015) (thesis honoured with distinction)
B.S., Cognitive Science	Jagiellonian University, Krakow, Poland (2010-2013)

## PUBLICATIONS AND MANUSCRIPTS

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- Matyjek, M.**, Bayer, M., Dziobek, I. (in prep.), Feedback Context and Familiarity in Processing of Social Rewards: A Pupillary Study.
- Schneider, J., **Matyjek, M.**, Dziobek, I., Weigand, A., Brick, T. R. (in prep.), Subjective and Objective Difficulty of Emotional Facial Expression Perception from Dynamic Stimuli.
- Senderecka, M., **Matyjek, M.**, Kroczeck, B., Ociepka, M. (in review), Socially Induced Negative Emotions Elicit Neural Activity in the Mentalizing Network in a Subsequent Cognitive Task.
- Matyjek, M.**, Kroczeck, B., Senderecka, M. (in review), Socially Induced Negative Affect Modulates Early Face Perception, but not Attention.
- Matyjek, M.**, Meliss, S., Dziobek, I., Murayama, K. (2020), A Multidimensional View on Social and Non-social Rewards. *Frontiers in Psychiatry*, 11, 818. doi: doi.org/10.3389/fpsy.2020.00818 Also preprint available at: 10.31219/osf.io/gjfr5
- Matyjek, M.**, Bayer, M., Dziobek, I. (2020), Autistic Traits Affect Reward Anticipation but not Reception. *Scientific Reports* 10, 8396. doi: doi.org/10.1038/s41598-020-65345-x
- 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), Master's thesis: "In My Mind's Eye": Game-Induced Emotions Influence Face Processing in a Gaze-Cueing Task: an ERP Study (the highest grade with distinction).

## CURRENT PROJECTS

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\* See my website lenamatyjek.com for more information

**Reward Responsiveness in Autism** (PhD project). An EEG and eye-tracking study.

With: Dr. M. Bayer and Prof. Dr. I. Dziobek. Registration: [osf.io/3re72](https://osf.io/3re72)

**FRAPS: Familiarity, Relevance, Attractiveness, and Pupil Sizes.** An eye-tracking study.

With: Dr. M. Bayer and Prof. Dr. I. Dziobek. Registrations: <https://osf.io/h4awf> & <https://osf.io/neq2u>

## PRESENTATIONS

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### Conference talks:

**Matyjek M** (2019, November). Reward Responsiveness in autistic Traits. Talk at the First official European Congress on Clinical Psychology and Psychological Treatment of EACLIPT, 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**, Gawronska S., Bayer, M., Dziobek, I. (2020, March). Differential impact of autistic traits and social anxiety on reward responsiveness across the autistic spectrum. Wissenschaftliche Tagung Autismus-Spektrum 2020, Göttingen, Germany (poster accepted).
- 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., 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.

**SELECTED WORK EXPERIENCE**

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<p><b>Research assistant</b>          Sept. 2016 – December 2017          Neurocognitive Processes Lab          Jagiellonian University,          Krakow, Poland</p>	<p>Preparing and conducting the experimental session, recruiting participants, analysing EEG data with Brain Vision Analyzer, describing the results.          Founded by National Science Centre grant awarded to M. Senderecka: Influence of emotions on perception, response inhibition, and error monitoring: ERP analysis (2016-2019).</p>
<p><b>Research assistant</b>          Dec. 2015 – Sep. 2016          Neurocognitive Processes Lab          Jagiellonian University,          Krakow, Poland</p>	<p>Designing a procedure in SR-Research Eye Link Builder, preparing and conducting the experimental session, analysing data with Eye Link Data Viewer.          Principal investigator/supervisor: Prof A. Chuderski.          Funded by National Science Centre grant awarded to A. Chuderski: Chasing the homunculus of self-control: Mechanisms of goal selection and application (2011-2016).</p>
<p><b>Research assistant</b>          July 2015 – July. 2016          SWPS, Warsaw, Poland</p>	<p>Behavioural data analysis (from over 10 000 participants).          Principal investigator: Anna Wieczorek-Taraday.          Funded by: SWPS Warsaw (University of Social Sciences and Humanities) and neurogra.pl portal.</p>

**Research assistant**  
Sept. 2014 – Feb. 2015  
ScanUnit laboratory at  
University of Vienna, Austria

Project's title: Empathy for Pain in Asperger Autists: an Investigation of Emotional and Cognitive Empathy using Event Related Potentials.  
Responsibilities: recruitment of participants, conducting electroencephalography recordings (32-electrode caps), data analysis in EEG lab software.  
Principal investigator: Prof. Claus Lamm.

**President / member of  
Cognitive Science Students  
Association**  
Dec. 2010 - Sept. 2017  
Jagiellonian University,  
Krakow, Poland

Activities/projects: - Organisation of the VI (April 2014), VII (April 2015) and VIII (March 2016) Krakow's Cognitive Science Conference, volunteering in the V (2013) edition;  
- Organisation of Mei:CogSci Conference 2014 in Krakow;  
- Project "Visualisation of selected issues of Cognitive Science" (artistic arrangement aiming to explain the fields and issues of Cognitive Science);  
- Coordination of Scientific Projects' section;  
- Leading workshops on scientific methods and behavioural and Psychophysiological experimental design.

## SCHOLARSHIPS AND AWARDS

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- **Scholarships: 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); and **Rector's scholarship for the best students at Jagiellonian University, Krakow, Poland** (Oct. 2011 – June 2012 and in Oct. 2012 – June 2013).
- **Travel grants for conferences:** SIPS 2019 pre-conference workshop (Jan. 2019), 11th Wissenschaftliche Tagung Autismus-Spektrum (Mar. 2018);
- **The 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);
- **The 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 (2015);
- **Student exchange scholarships:** Erasmus + for a semester abroad at Mei:CogSci - Middle European Interdisciplinary Master Programme in Cognitive Science at **University of Vienna, Austria** (Sept. 2014 – Feb. 2015), and Australian-European Network full tuition for abroad semester in Clinical neuropsychology at **University of Wollongong, Australia** (July 2013 – Dec. 2013);

## TEACHING

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- **Empirical Research Training** for the Mind and the Brain tracks (of more philosophical/psychological and empirical focuses, respectively) for the Berlin School of Mind and Brain master program - co-teaching with Isabel Dziobek and Mareike Bayer (2017)
- Guest tutorial on **EEG data preprocessing** for the Berlin School of Mind and Brain master program (June 2020)
- Guest lecture and tutorial on **eye tracking** for the Berlin School of Mind and Brain master program (January 2020)
- Guest lecture on **social interactions and autism** for the SCAN master program at Freie Univesitaet, with K. Boegl and S. Lipinski (February 2020)
- Guest lecture on **Event-related brain potentials** for the psychology master program at SWPS (December 2015)

## SUPERVISION

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- R. Flechtner - student lab rotation and master's thesis (2017-2020)
- I. Patronnikov - student lab rotation (2018-2019)
- S. Gawronska - student lab rotation (2018-2020)
- T. Waclawek - student lab rotation (2019-2020)
- R. Oznur - student lab rotation (2019-2020)
- F. Taheri - student lab rotation (2020)

## EXTRACURRICULAR ACTIVITY

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- **Scholar Minds Berlin - a mental health initiative for PhD students.** I am one of the founding members and an active contributor. More information: <https://bit.ly/3gJFteE>.
- **Science communication:** 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)
- **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)
- **Study abroad programs:** Mei:CogSci - Middle European Interdisciplinary Master Programme in Cognitive Science at **University of Vienna**, Austria (Sept. 2014 – Feb. 2015). Scholarship: Erasmus +; Clinical neuropsychology at **University of Wollongong**, Australia (July 2013 – Dec. 2013). Scholarship: AEN (Australian European Network).

## SKILLS

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- **Programming skills:** R, Matlab, R Markdown, LaTeX, jspsych (other: ELAN, Brain Vision Analyzer)
- **Data analysis/stats:** LMM, GLMM, GAMM (in R)
- **Personal skills:** highly organised, motivated and driven by passion to research, scrupulous, empathic.
- **Language skills:** native Polish, fluent English, basic German, basic 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
- **Project and personnel management:** IT, HR and PM (project management) positions at Consus Carbon Engineering Sp. z o.o. (Ltd.) (2011-2014)
- **IT technician degree,** Profesja Centrum Kształcenia Kadr, Krakow, Poland (2011-2013)