

# 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.), Reward Processing Across Autism and Autistic Traits: Brain and Pupillary Responses (working title).

Schneider, J., **Matyjek, M.**, Dziobek, I., Weigand, A., Brick, T. R. (in review), Subjective and Objective Difficulty of Emotional Facial Expression Perception from Dynamic Stimuli.

**Matyjek, M., Bayer, M., Dziobek, I.** (2021), Pupillary Responses to Faces are Modulated by Familiarity and Rewarding Context. *Brain Sciences*, 11, 794. <https://doi.org/10.3390/brainsci11060794> (Open Access).

**Matyjek, M., Kroczek, B., Senderecka, M.** (2021), Socially Induced Negative Affect Modulates Early Face Perception, but not Gaze-Cued Attention. *Psychophysiology*, 00:e13876. <https://doi.org/10.1111/psyp.13876> (Open Access).

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*. <https://doi.org/10.1016/j.neuroscience.2021.06.032> (Open access).

**Matyjek, M., Meliss, S., Dziobek, I., Murayama, K.** (2020), A Multidimensional View on Social and Non-social Rewards. *Frontiers in Psychiatry*, 11, 818. <https://doi.org/10.3389/fpsyt.2020.00818> (Open Access). Also preprint available at: [10.31219/osf.io/gjfr5](https://osf.io/gjfr5).

**Matyjek, M., Bayer, M., Dziobek, I.** (2020), Autistic Traits Affect Reward Anticipation but not Reception. *Scientific Reports* 10, 8396. <https://doi.org/10.1038/s41598-020-65345-x> (Open Access).

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. <https://doi.org/10.3389/fnhum.2018.00178>.

**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](http://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)

**Mental Health Survey in Berlin's PhD students.** An online survey.

With: K. Boegl, S. Naumann, Scholar Minds Berlin, and Prof. Dr. I. Dziobek.

**Pupillary Responses to Different Levels of Attractiveness.** An eye-tracking study.

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

## SCIENTIFIC PRESENTATIONS

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### Conference talks:

- 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.
- 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., 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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### Research assistant

Sept. 2016 – December 2017  
Neurocognitive Processes Lab  
Jagiellonian University,  
Krakow, Poland

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><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>
<p><b>Research assistant</b> Sept. 2014 – Feb. 2015 ScanUnit laboratory at University of Vienna, Austria</p>	<p>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.</p>
<p><b>President / member of Cognitive Science Students Association</b> Dec. 2010 - Sept. 2017 Jagiellonian University, Krakow, Poland</p>	<p>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.</p>

## SCHOLARSHIPS AND AWARDS

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- **EUTOPIA Science and Innovation Postdoctoral Fellowship** for a project investigating multisensory integration in autism at the Universitat Pompeu Fabra, Barcelona, Spain (Planned starting date: October 2021).
- **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, MARCH 2021 - Oct. 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 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 lecture on **Event-related brain potentials** for the psychology master program at SWPS (December 2015)

## SUPERVISION

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- **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)

## 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 at: <https://www.scholar-minds.net>.
- **Science communication:** See lay summaries of all published research at: <https://www.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:** I was a panelist at "Doctoral opportunities in Germany" (German Ministry of Education and Research) and "Digital credentials in academia" (DAAD).
- **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

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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 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
- **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)