

# MACIEJ KOS

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## EDUCATION

<b>Northeastern University</b> , Boston, MA	05/2015 – present
Ph.D. Candidate in Computer Science / Personal Health Informatics (GPA: 4.0)	
<b>University of Michigan</b> , Ann Arbor, MI	12/2012
Master of Arts in Information Science	
<b>Barcelona Graduate School of Economics</b> , Barcelona, Spain	06/2009
Master of Science in Economics of Science and Innovation	
<b>University of Gdansk</b> , Sopot, Poland	06/2005
Bachelor and Master of Arts in Economics and E-business	

## RELEVANT EXPERIENCE

<b>Research Assistant</b> at Khoury College of Computer Sciences, Northeastern University, Boston, MA	09/2015 – present
<b>UX Research Intern</b> (quantitative) at Google, Material Design, San Francisco, CA	05/2019 – 09/2019
<b>Research Intern</b> (clinic data analytics) at Philips Healthcare Research, Cambridge, MA	05/2018 – 09/2018
<b>Investigator / Research Group Manager</b> , Research Grant: Genetic health risk information avoidance, Sopot, Poland & Boston, MA	07/2013 – 05/2018
<b>User Experience and Research Consultant</b> at Agile Axons (self-employed), Gdynia, Poland and Rome, Italy	01/2013 – 08/2015
<b>Graduate Research Assistant</b> at the School of Information, University of Michigan, Ann Arbor, MI	08/2009 – 01/2012
<b>Researcher/lecturer</b> at the Department of Economics, University of Gdansk, Sopot, Poland	09/2005 – 08/2009

## SELECTED AWARDS

- Association for Computing Machinery HPC/Intel Corporation Computational and Data Sciences Fellowship, 2017 – 2020
- Google Scholarship, 2020
- Northeastern University, 2020 – dissertation grant (3,000 USD)
- Computing Research Association URMD Grad Cohort Workshop, 2020 – travel award
- Grace Hopper Conference, 2019 – Google travel award
- Complex Physical, Biological & Social Systems Winter School at New England Complex Systems Institute, MIT, Cambridge, MA, 2019 - tuition waiver
- Disability:IN, 2017 - NextGen Leader award
- 4th Annual Political Networks Conference and Workshops at the University of Michigan, 2011 - fellowship
- Barcelona Graduate School of Economics, 2008/2009 - merit-based full tuition waiver (12,000 EUR)
- Erasmus Life-long Learning Grant, 2008 (1,900 EUR)
- University of Gdansk, 2007 (2,000 USD) - grant to assess usability of selected academic websites
- Erasmus Socrates Mobility Grant, 2005 (1,850 EUR)

## MENTORSHIP

Northeastern University (2019):

- guided three graduate students through completing their data science capstone project
- mentored a graduate student in health data analytics

University of Gdansk (2006 – 2009):

- mentored two teams of graduate students participating in **Google Online Marketing Challenge**; one of the teams won the first place in Poland
- advised 20 undergraduate students on their theses projects

## SELECTED TEACHING EXPERIENCE

- Northeastern University:
  - Teaching assistant: Health Data Analytics (HDA6400), graduate course
- University of Gdansk:
  - Instructor: Web usability, undergraduate and graduate course
  - Instructor: Internet Marketing and online communities, graduate course

## ACADEMIC SERVICE

- Ad hoc reviewer for:
  - SIG Computer-Human Interaction,
  - IEEE Engineering in Medicine and Biology Society
  - American Medical Informatics Association
- Northeastern Personal Health Informatics Faculty Committee, 2018/2019 – elected student representative
- Personal Health Informatics seminar, 2016/2018 – organizer (with C. Gordon and S. Ólafsson)
- Northeastern University Ph.D. task force, 2016 – representative of the Personal Health Informatics program
- Interdisciplinary Committee on Organizational Studies 9th Biannual Dissertation Poster Session at University of Michigan Ross Business School, 2011 – coordination team member
- Rackham's International Connect, 2010/2011 – mentor
- Poland Foresight 2020 national research program – external expert
- Barcelona Graduate School of Economics, 2008/2009 - student representative
- E-business Science Association, 2006-2008 - chair at the University of Gdansk
- Baltic Science Festival, 2007/2008 – departmental coordination team member
- Association of Internet Researches, 2007 – graduate students research team member

## PROFESSIONAL ASSOCIATIONS

- Association for Computing Machinery
- IEEE
- American Medical Informatics Association
- Society for Affective Science
- Society for Judgment and Decision Making
- Anita Borg Institute for Women in Technology
- Disability:IN

## PUBLICATIONS

- **Kos M.** (2020). *Towards a digital biomarker of cognitive health: passive monitoring of cognitive changes using smartphone-based data*. Poster presentation at the Computing Research Association Grad Cohort Workshop, Austin, TX.
- **Kos M.**, Pavel M., Jimison H. (2020). *Sensitivity of dual-task motor performance to varying levels of cognitive impairment: a systematic review and quality assessment* (paper submitted)
- **Kos M.**, Pavel M., Jimison H. (2019). *How to Validate Heart Rate Monitoring Wearables for Just-in-Time Adaptive Health Interventions? Development of Comparison Testing Guidelines*. Poster presentation at the Annual American Medical Informatics Association Symposium, Washington, DC.
- Khaghani-Far, I., Li, X., **Kos, M.**, Gordon, C. M., Williams, H., Pavel, M., & Jimison, H. B. (2019). *NUCoach: A Customizable Coaching Platform for Designing Rehabilitation Mobile Apps*. Archives of Physical Medicine and Rehabilitation, 100(7), e2.
- **Kos M.**, Yew J. (2019) *Computational methods for understanding cognitive density preferences; foundations for adaptive user experiences*, Google Ph.D. Intern Research Conference, Mountain View, CA.
- **Kos M.**, Ponnada A., Pavel M., Intille S. (2018). *Evidence That Microinteraction Ecological Momentary Assessment ( $\mu$ EMA) is a Non-Reactive In-Situ Affect Assessment Method*. Poster presentation at the 2019 Society for Affective Science Annual Conference in Boston, MA.
- Rampersad S., Orhan K., **Kos M.**, Mansfield K., Marghi Y. M., Sheffield J., Dillard M., Erdogmus D., Pascual-Leone A., Yeung N., Mathan S., Cohen K. R., Pavel M. (2018). *Effects of EEG-Based Closed-Loop Transcranial Alternating Current Stimulation on Theta Power during a Cognitive Task*. Poster presentation at the 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii.
- **Kos M.**, Gordon C., Li X., Khaghani-Far I., Pavel M., Jimison H. (2017). *The Accuracy of Monitoring Stress from Wearable Devices*. Poster presentation at the Annual American Medical Informatics Association Symposium, Washington, DC.
- **Kos M.**, Li X., Khaghani-Far I., Gordon C., Pavel M., Jimison H. (2017). *Can accelerometry data improve estimates of heart rate variability from wrist PPG sensors?* Paper presentation at the 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, South Korea.
- McKanna J., **Kos M.**, Plessow F., Dillard M., Almquist J., Kimball G., Myers E., Orhan U., Rampersad S., Marghi Y., Cornhill D., Brem A., Mansfield K., Yeung N., Thompson T., Santarnecchi E., Erdogmus E., Pascual-Leone A., Kadosh C. R., Mathan S., Pavel M. (2017). *Components of cognition: identifying*

- contributors to learning speed in a game training intervention*. Poster presentation at xTech, San Francisco, CA.
- **Kos M.**, McKanna J., Pavel M., Dillard M., Almquist J., Kimball G., Brem A., Orhan U., Rampersad S., Cornhill D., Yeung N., Erdogmus D., Pascual-Leone A., Kadosh R., Mathan S. (2017). *The impact of stimulus features on learning and accuracy in an adaptive category learning task designed to train fluid intelligence*, Poster presentation at the Association for Psychological Science annual convention, Boston, MA.
  - Blajer-Golebiewska, A. and **Kos, M.** (2016). *Investors are more sensitive to information about financial rather than ethical reputation of a company: evidence from an experimental study*. *Economics & Sociology*, 9(1), p.11.
  - **Kos M.**, Blajer-Golebiewska A., Wach D., Pavel M., Gonzalez R. (2016). *Decision-making under threat: what determines our engagement in preventive behaviors?* Poster presentation at the Society for Judgment and Decision-Making annual conference, Boston, MA.
  - **Kos M.**, Blajer A., Wach D. (2015). *When do we avoid health-risk information?* Poster presentation at the Society for Judgment and Decision-Making annual conference, Chicago, IL.
  - **Kos M.**, Blajer A., Wach D. (2015). *Identifying predictors of preventive behaviors using a financially incentivized experiment – a pilot study*. Poster presentation at the 37th Annual North American Meeting of Society for Medical Decision Making, St. Louis, MO.
  - Blajer A., Wach D., **Kos M.** (2015). *When inducing affective decision-making statistical significance may be not enough*, Oral presentation at the 10th Nordic Conference on Behavioral and Experimental Economics, Tampere, Finland.
  - **Kos M.**, Blajer A., Wach D. (2015). *When do individuals avoid potentially life-saving risk information?* Poster presentation at the Subjective Probability, Utility, Decision Making conference, Budapest, Hungary.
  - **Kos M.** (2013). *Structural and behavioral determinants of play in a repeated network coordination game – preliminary report*. *Contemporary Economy Economic Scientific Journal*, 3(4), 43-69.
  - **Kos, M.** (2010). *Business aspects of user-centric design*. In J. Winiarski (Ed.), *E-commerce*. University of Gdansk Print House.
  - **Kos, M.** (2008). *Cultural factors in online marketing communications through corporate websites*. In J. Winiarski, K. Dobrowolski, O. Dębicka, T. Gutowski, & A. Oniszczyk (Eds.), *Enterprise on a global market*. University of Gdansk Print House.
  - **Kos, M.** (2007). *Virtual communities as a new channel in Internet marketing communications*. In Dobrowolski K. and Kujawa J. (Eds.), *Electronic Business*. University of Gdansk Print House.