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## Summary Statement

A Social and Computational Psychologist, who has mostly focused on building digital infrastructure and standards for scientists, through a variety of studies, papers, and consultancies with platforms and services in the open science space. Curious, collaboratively critical, and with a focus on what is best for the team, particularly skilled at student recruitment and development.

## Expertise and Skills

- Teaching and motivating students, especially in how to use the force multiplier of the computer.
- Programming: R, SQL, SPSS, NLP, Python, Text Analysis and Machine Learning processes.
- Advanced statistical methods (e.g., GLM, SEM, Bayes, Multilevel Analysis, time series).
- Applying theories in Psychology, Communication, Sociology, Economics, Philosophy, and Education.

## Work History

**Researcher** Nicholaus Copernicus University, Center for Interacting Minds, Societies, and Environments  
2020-Present

- Building metrics of Polish universities, and studying the history of science from Wikipedia perspective.
- Teaching classes on Information Visualization and Programming. Launched and hosted Center's Podcast.

**Post-Doctoral Researcher**, Archiving and Publishing Services, ZPID Leibniz Trier, Germany 2019

- Provided feedback on their digital infrastructure in light of Buttliere 2014, unified and focused on value.
- Examined the sharing and reuse of data, developed standard variable protocols Buttliere, 2021.

**Post-Doctoral Researcher**, Knowledge and Technology Transfer, TU Dresden, Germany 2018

- Built metrics of the German universities and their research focuses using Web of Science data.
- Collected, synthesized, and analyzed millions of academic records, text and network analysis of entities.

**Doctoral Student**, Leibniz Institute für Wissensmedien, Tübingen, Germany. 2015 – 2017

- Researched dynamics of knowledge sharing online (e.g., confirmation bias; Buttliere & Buder, 2017).
- Managed online data collection, used SQL, APIs, and e.g., managed student assistants and collaborators.

**Master Student/ Research Assistant**, Tilburg University, Tilburg Netherlands. 2012 – 2014

- Utilized large cross national data sets and multilevel models to examine opinionfit and life outcomes.
- Ran large scale surveys (over 2,000 psychologists), achieved >20% full response rate, 90% completion.

## Degrees and titles.

**Ph. D. Magna Cum Laude** Psychology/ Communication, University of Tübingen, Germany 2017

Title: The Role of Cognitive Conflict in Science: Demonstrations in What Scientists Talk About and Study.

**M. Sc**, R Master, Social and Behavioral Sciences, University of Tilburg, Netherlands 2012 – 2014

Title: Psychological researchers' views on peer review: A forward focused survey.

**B. A.**, Bachelor Psychology, Minor: Philosophy, Bradley University, Illinois, USA 2007 – 2011

Title: Reducing prejudice towards Schizophrenia: Testing three strategies.

**Research Visits** University of Chicago (2022), Indiana University (2022), Northwestern University (2021), Princeton University (2018), Vrije Universiteit (2012), & University of Illinois (2012).

## Publications and Book Chapters

- Buttliere, B. (2021). *Adopting standard variable labels solves many of the problems with sharing and reusing data. Methodological Innovations, 14 (2), 20597991211026616.*
- Buttliere, B., & Buder, J. (2017a). Reading more vs. writing back: Situation affordances drive reactions to conflicting information on the internet. *Computers in Human Behavior, 74*, 330-336.
- Buttliere, B. & Buder, J. (2017b). Personalizing papers using Altmetrics: Approaching Quality or Impact as we would Personality or Intelligence. *Scientometrics, 111(1)*.
- Buttliere, B., (2017). *The role of cognitive conflict in science: Evidence in what scientists talk about and work on.* Dissertation at the University of Tübingen. Available to buy on Amazon or view at *PsyArxiv*.
- Buder, J., Buttliere, B., & Cress, U. (2017). The role of cognitive conflicts in informational environments: Conflicting evidence from the learning sciences and social psychology? *Informational environments: Effects of Use, Effective Designs (pp. 53–74)*. New York, NY: Springer.
- Buttliere, B. (2014). Using Science and Psychology to improve the dissemination and evaluation of scientific work. *Frontiers in Computational Neuroscience*.
- Buttliere, B., & Chadoir, S. (2010). Reducing prejudice towards schizophrenia: A test of three strategies. *Eye on Psi Chi Vol. 15*, 36. (Keyword 'Buttliere').

## Preprints, or Under Review

- Buttliere, B., Y. Yarovikova, & Tennant, J., (2021). Reducing barriers and inequality by hosting conferences in developing countries.
- Buttliere, B. (On the way). A general theory of minds and meaning.
- Buttliere, B. & Buder, J. (2018). Evidence of a negativity bias in psychological science. *PsyArxiv*.
- Buttliere, B., (2017). Harvesting touch data for the improvement of psychological science. *MetaArxiv*.
- Buttliere, B., & Wicherts, J., (2014a). What next for scientific communication? A large scale survey of psychologists on problems and potential solutions. Master Thesis. *PsyArxiv*.
- Buttliere, B., & Wicherts, J., (2014b). Opinions on the value of direct replication: A survey of 2,000 psychologists. *PsyArxiv*.

## Oral Presentations

- Buttliere, B. (Dec., 2021). Don't forget the psychology of the scientist in developing a meta-science. *Northwestern University*,
- Buttliere, B. (Dec., 2021). Can we do science better, how? Studies from three directions. *Inventing Knowledge*.
- Buttliere, B. (Dec., 2020). The need for data in the philosophies of open science. *Science Bridges, Torun, Poland*.
- Buttliere, B. (Jun., 2019). Psychologically informed digital infrastructure for the sciences. *ZPID Trier*.
- Buttliere, B. (Dec., 2018). Cognitive conflict as a necessary, but not sufficient, condition of great (scientific) work. *GESIS Winter Symposium Science Slam, Cologne, Germany*.

- Buttliere, B., Zviagintseva, K., & Yenikent, S. (Dec, 2018). A socio-computational examination of gender bias in science. *GESIS Symposium Pre-conference on Bias in Science, Cologne, Germany*.
- Buttliere, B. (Oct., 2018). Tales of impactful people. *5<sup>th</sup> Altmetrics Conference, London, UK*.
- Buttliere, B. (Oct., 2018). Psychology and Meta-science. *Princeton University, Fiske Lab*.
- Yenikent, S., Buttliere, B., Fetahu, B., & Kimmerle, J. (May, 2018). Wikipedia article measures in relation to content characteristics of lead sections. *10<sup>th</sup> WebSci Conference. Amsterdam, Netherlands*.
- Buttliere, B. The role of cognitive conflict in impactful and efficient scientific work.  
*2<sup>nd</sup> Heterodox Conference, Chapman University (Jan, 2019)*  
*Lab of Dr. Susan Fiske, Princeton University, NJ, USA (Sep, 2018)*  
*Bradley University Alumni talk and Q & A, IL, USA (Sep, 2018)*  
*International Conference on Education, Science & Technology, Marmaris, Turkey (May, 2018)*  
*Spring Conference – European Association for Social Psychology, Austria (Mar, 2018)*  
*Dissertation Defense and Institute Colloquium series, Tübingen, Germany (Dec, 2017)*  
*Labs of Drs. Skitka and Motyl, University of Illinois, IL, USA (Oct, 2017)*
- Buttliere, B. (Oct, 2017). The Psychology in Altmetrics. *4<sup>th</sup> Altmetrics Conference, Toronto, Canada*.
- Buttliere, B., Buder, J., & Costas, R. (Oct, 2017c). More tweeted scientific topics are more negated, *4AM, Toronto, Canada*.
- Buttliere, B. (July, 2015). The point of impact, or: How to change the world. *Science slam presentation at the conference of the DGP Media Psychology. Tübingen, Germany*.
- Buttliere, B. (May, 2015). Identifying high impact scientific work using Natural Language Processing and Psychology. *WebSci15, Oxford, England*.
- Wicherts, J., & Buttliere, B. (Feb, 2015). Two large surveys on psychologists' views on peer review and replication. *Presented at the World Conference on Research Integrity. Rio de Janeiro, Brazil*.
- Buttliere, B. (Oct, 2014). Using Science to improve Science. Critical psychology afternoon and debate. *University of Groningen, Netherlands*. [Invited]
- Buttliere, B. The other side of the similarity research standard. Or, what makes people do extreme things? And nudging away from extremity.  
*Bradley University Alumni Series, IL, USA (Jan, 2013) [Invited]*  
*University of Alaska Southeast, Skype (Mar, 2013) [Invited]*

## Poster Presentations

- Buttliere, B., Yenikent, S, Zviagintseva, K.. A socio-computational examination of gender bias in science.  
*GESIS Winter Symposium on Computational examinations of Bias, Cologne, Germany (Dec, 2018)*.  
*51st Congress of the German Psychological Society, Frankfurt, Germany (Sept, 2018)*.  
*10th ACM Conference on Web Science (WebSci'18), Amsterdam, Netherlands (May, 2018)*.

- Yenikent, S., Buttlere, B., Fetahu, B., & Kimmerle, J. (Apr, 2018). What drives online knowledge production? A textual analysis of Wikipedia articles. *ICEMST 2018. Marmaris, Turkey.*
- Buttlere, B., Holtz, P., Buder, J., (Sept., 2017). Evidence for a negativity bias in psychological science. *DGPs Media Psychology Conference, Landau, Germany.*
- Buttlere, B., Ballman, A., Buder, J., (May, 2016). Reading more vs. Writing back: Situation affordances drive reactions to conflicting information. *WebSci 16, Hannover, Germany.*
- Buder, J., Buttlere, B., & Ballmann, A. (May, 2015). Cognitive conflict in forum discussions on scientific topics (pp. 4-6). In H. Ogata et al. (Eds.) *Asia-Pacific Society for Computers in Education, Japan.*
- Buttlere, B., Bleidorn, W. (Feb., 2015). Bikes, biking behaviors, traces of personality and the heat map. *Society for Personality and Social Psychology (SPSP)2015, San Diego, USA.*
- Buttlere, B. (Feb., 2014). The other side of the similarity research standard, or, What makes somebody an extremist? *SPSP2014, San Antonio, USA.*
- Fosco, W., Buttlere, B., Southard, M., Weidner, L., Andel, S., Bluell, A., Ary, D., Williams, T., Gillen, A., Long, A. (Apr., 2011). Psi Chi's focus on enhancing the freshman experience. *Midwestern Psychological Association 2011, IL, USA.*
- Buttlere, B., Hardesty, S., & Chadoir, S. R. (Jan., 2011). Reducing prejudice towards schizophrenia: A test of the three strategies. *SPSP 2011, Texas, USA.*

## Formal Blog Posts

- Featured in: McLeish, B. (2018). From Numbers to Narratives: An Everyday Tale of Impactful Folk. *The Altmetrics Blog.*
- Buttlere, B. (2016). We need metrics that will help, not hurt, scientific evaluation. *London School of Economics Impact Blog. Top 25 Science Communication stories of the week.*
- Buttlere, B. (2017). The Psychology in Altmetrics. *The Altmetrics Blog.*
- Chawla, D. S. (2016). How many replications are enough? *Nature News.*
- Neuroskeptic, Buttlere, B. (2015). A 'Facebook for Science'. *PLoS Neuroscience Blog. Picked up by the European Higher Education News, Top science news story of the week.*
- Buttlere, B. (2015). Scientists behaving badly (on social media). *PLoS – The Student Blog.*
- Buttlere, B. (2015). What should be done when a blog post is wrong? *PLoS – The Student Blog.*

## Honors, Awards, Grants, & Miscellaneous

- Youngest Invited Researcher, Spring Conference of the EASP, St. Anton, Austria (2018).
- Invited Opening Speaker, 5<sup>th</sup> Altmetrics Conference, London, UK (2018).
- Granted Summer School on Quantitative Text Analysis and ML, University of Hohenheim (2017).
- Interviewed by Neuroskeptic about Buttlere (2014) and Nature News for an article on Replications.
- Founding Grant Winner and Member, Society to Improve Psychological Science (SIPS) (2016).
- Granted Summer School on Web and Computational Social Science, University of Koblenz (2016).
- Alumni Ambassador, Tilburg University (2014-2016).
- Regional and National Psi Chi Chapter Awards at Bradley University (2010 & 2011).

- Summer Research Grant, Association for Psychological Science (APS), Bradley University (2010).
- Languages: English (native), German (intermediate), Spanish (intermediate).
- Moderator of Facebook group *Psychological Theory Discussion Group*, ~850 members.

Contacts in order of working knowledge

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