

Curriculum Vitae

Dr. Sarah Humberg, Dipl.-Math.

Department of Psychology, Westfälische Wilhelms-University Münster
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Professional Positions

- Since 04/2019 Postdoctoral researcher at the Department of Psychology, University of Münster
Section of Psychological Assessment and Personality Psychology
- Since 04/2014 Research assistant at the Department of Psychology, University of Münster
Evaluation and Quality Management
- 12/2012 – 03/2014 Research assistant at the Department of Mathematics, University of Münster
Section Topology
- 10/2008 – 12/2012 Teaching assistant at the Department of Mathematics, University of Münster

Education

- 10/2013 – 03/2019 PhD (Dr. rer. nat.) at the Department of Psychology, University of Münster
Section of Psychological Assessment and Personality Psychology
Dissertation: "The adaptiveness of favorable, enhanced, and accurate self-views: Conceptual, statistical, and methodological considerations."
- 10/2006 – 08/2012 Diploma in Mathematics, University of Münster
Diploma Thesis: "Hopf rings and the Homology of Eilenberg - Mac Lane - Spaces"
- 09/2010 – 01/2011 Term abroad at the Université de Nice Sophia Antipolis, Nice, France

Awards and Funding

- Awards: *EAPP Dissertation Award 2020* of the European Association of Personality Psychology
Heinz-Heckhausen Young Researcher Award 2020 of the German Psychological Society (DGPs)
Best Dissertation Award 2019 of the Department of Psychology, University of Münster
SPSP Student Publication Award 2020 (for the publication Humberg, Nestler, & Back, 2019)
Best Poster Award on the *17th European Conference on Personality* (by the EAPP)
- Funding: Travel grants by the German Academic Exchange Service (DAAD) for the *18th European Conference on Personality* and for the *2020 Annual Convention of the Society for Personality and Social Psychology*;
Travel grant by the European Association of Personality Psychology for the *19th European Conference on Personality*;
Travel grants by the University of Münster for the *1st International Convention of Psychological Science*, for the *14th meeting of the section Differential Psychology and Psychological Assessment of the German Psychological Society*, and for the *3rd World Conference on Personality*.

Professional Memberships

- German Psychological Association (DGPs), Sections “*Personality Psychology and Psychological Assessment*” and “*Quantitative Methods and Evaluation*”
- European Association of Personality Psychology (EAPP)
- Society for Personality and Social Psychology (SPSP)

Research Interests

Psychological methods:

- Response Surface Analysis (RSA) and its extensions
- Regression techniques for testing discrepancy hypotheses
- Information-theoretic approaches for multiple hypotheses evaluation
- Multilevel Structural Equation Modeling

Personality and individual differences:

- Consequences of (intellectual and personality) self-knowledge and self-enhancement on psychological and social adjustment
- Relationship formation based on between-person similarity

Teaching

Lectures:

- Test theory

Seminars:

- Advanced Statistics
- Introduction to scientific work methods
- Exercise courses for various advanced lectures in mathematics

Workshops:

- Response Surface Analysis (RSA) for the investigation of fit hypotheses

Ad Hoc Journal Reviewer

Advances in Methods and Practices in Psychological Science; European Journal of Personality; Journal of Individual Differences; Journal of Personality Assessment; Journal of Personality and Social Psychology; Journal of Research in Personality; Learning and Individual Differences; Personality Science; Psychological Science; Social Psychological and Personality Science; Social Psychology; Studies in Higher Education; Teacher and Teacher Education

Publications

Journal Articles (peer-reviewed)

- [18] **Humberg, S.**, Dufner, M., Schönbrodt, F. D., Geukes, K., Hutteman, R., van Zalk, M. H. W., Denissen, J. J. A., Nestler, S., & Back, M. D. (2022). The true role that suppressor effects play in condition-based regression analysis: None. A reply to Fiedler (2021). *Journal of Personality and Social Psychology*, 123(4), 884–888. <https://doi.org/10.1037/pspp0000428>
[Preprint: psyarxiv.com/6j34w | Supplement: osf.io/fbshg]
- [17] **Humberg, S.**, Gerlach, T.M., Franke-Prasse, T., Geukes, K., & Back, M.D. (in press). Is (actual or perceptual) personality similarity associated with attraction in initial romantic encounters? A dyadic response surface analysis. *Personality Science*.
[Preprint: psyarxiv.com/vcp85 | Open Data + Code: osf.io/vqpsh | Preregistration: osf.io/cwt5h]
- [16] Wiczorek, L.L., **Humberg, S.**, Gerstorf, D., & Wagner, J. (2021). Understanding loneliness in adolescence: A test of competing hypotheses on the interplay of extraversion and neuroticism. *International Journal of Environmental Research and Public Health*, 18, 1-26.
<https://doi.org/10.3390/ijerph182312412>
[Open Access: mdpi.com/1660-4601/18/23/12412 | Preregistration + Data + Code: osf.io/4dgku]
- [15] Nestler, S. & **Humberg, S.** (in press). A Lasso and a regression tree mixed-effect model with random effects for the level, the residual variance, and the autocorrelation. *Psychometrika*.
- [14] Förster, N., **Humberg, S.**, Hebbecker, K., Back, M. D., & Souvignier, E. (in press). Should teachers be accurate or (overly) positive? A competitive test of teacher judgment effects on students' reading progress. *Learning and Instruction*.
- [13] Nestler, S., & **Humberg, S.** (2021). GIMME's Ability to Recover Group-Level Path Coefficients and Individual-Level Path Coefficients. *Methodology*, 17(1), 58-91. <https://doi.org/10.5964/meth.2863>
- [12] **Humberg, S.** & Grund, S. (in press). Response surface analysis with missing data. *Multivariate Behavioral Research*. <http://doi.org/10.1080/00273171.2021.1884522>
- [11] **Humberg, S.**, Schönbrodt, F. D., Back, M. D., & Nestler, S. (in press). Cubic response surface analysis: Investigating asymmetric and level-dependent congruence effects with third-order polynomial models. *Psychological Methods*. doi:10.1037/met0000352.
[Preprint: psyarxiv.com/v6m35 | Example Code: osf.io/drv3a]
- [10] Mielke, I., **Humberg, S.**, Leckelt, M., Geukes, K., & Back, M. D. (2021). Do Narcissists Self-Enhance? Disentangling the Associations Between Narcissism and Positive Versus Enhanced Self-Views Across Aspects of Narcissism, Content Domains, and Comparison Criteria. *Social Psychological and Personality Science*, 12(5), 580–592. <https://doi.org/10.1177/1948550620930543>
[Preprint: psyarxiv.com/vfmkp | Open Data + Code: osf.io/6eh2c | Preregistration: osf.io/pnxjd]
- [9] Mota, S., **Humberg, S.**, Krause, S., Fatfouta, R., Geukes, K., Schröder-Abé, M., & Back, M. D. (2020). Unmasking Narcissus: A competitive test of existing hypotheses on (agentic, antagonistic, neurotic, and communal) narcissism and (explicit and implicit) self-esteem across 18 samples. *Self and Identity*, 19(4), 435–455. <http://doi.org/10.1080/15298868.2019.1620012>
[Preprint: osf.io/ewk3r | Open Data + Code: osf.io/9nz3d | Preregistration: osf.io/phvkc]
- [8] Deventer, J., **Humberg, S.**, Lüdtke, O., Nagy, G., Retelsdorf, J., & Wagner, J. (2019). Testing competing hypotheses on the interplay of importance and support of the basic psychological needs at work and personality development with response surface analysis. *Collabra: Psychology*, 5(1), 39.
doi:10.1525/collabra.214.
[Open Access: collabra.org/article/10.1525/collabra.214 | Open Data: osf.io/h54a2]
- [7] **Humberg, S.**, Dufner, M., Schönbrodt, F. D., Geukes, K., Hutteman, R., Küfner, A. C. P., van Zalk, M. H. W., Denissen, J. J. A., Nestler, S., & Back, M. D. (2019). Is accurate, positive, or inflated self-perception most advantageous for psychological adjustment? A competitive test of key hypotheses. *Journal of Personality and Social Psychology*, 116(5), 835–859. doi:10.1037/pspp0000204
[Preprint: osf.io/9w3bh | Open Data + Code: osf.io/m6pb2]

- [6] **Humberg, S.**, Nestler, S., & Back, M. D. (2019). Response surface analysis in personality and social psychology: Checklist and clarifications for the case of congruence hypotheses. *Social Psychological and Personality Science*, 10(3), 409–419. doi:10.1177/1948550618757600
[Preprint: osf.io/mhf2y | Example Code: osf.io/yvw93]
- [5] Mota, S., Leckelt, M., Geukes, K., Nestler, S., **Humberg, S.**, Schröder-Abé, M., Schmukle, S. C., & Back, M. D. (2019). A comprehensive examination of narcissists' self-perceived and actual socioemotional cognition ability. *Collabra: Psychology*, 5(1), 6. doi:10.1525/collabra.174
[Open Access: collabra.org/article/10.1525/collabra.174 | Open Data + Code: osf.io/jtrfm]
- [4] Nestler, S., **Humberg, S.**, & Schönbrodt, F. D. (2019). Response surface analysis with multilevel data: Illustration for the case of congruence hypotheses. *Psychological Methods*, 24(3), 291–308. doi:10.1037/met0000199
[Example Code: osf.io/jhyu9]
- [3] **Humberg, S.**, Dufner, M., Schönbrodt, F. D., Geukes, K., Hutteman, R., van Zalk, M. H. W., Denissen, J. J. A., Nestler, S., & Back, M. D. (2018a). Enhanced versus simply positive: A new condition-based regression analysis to disentangle effects of self-enhancement from effects of positivity of self-view. *Journal of Personality and Social Psychology*, 114(2), 303-322. doi:10.1037/pspp0000134
[Preprint: osf.io/smmh7 | Open Data + Code: osf.io/e8p5r]
- [2] **Humberg, S.**, Dufner, M., Schönbrodt, F. D., Geukes, K., Hutteman, R., van Zalk, M. H. W., Denissen, J. J. A., Nestler, S., & Back, M. D. (2018b). Why condition-based regression analysis (CRA) is indeed a valid test of self-enhancement effects: A response to Krueger et al. (2017). *Collabra: Psychology*, 4(1), 26. doi:10.1525/collabra.137
[Open Access: collabra.org/article/10.1525/collabra.137]
- [1] Schönbrodt, F. D., **Humberg, S.**, & Nestler, S. (2018). Testing similarity effects with dyadic response surface analysis. *European Journal of Personality*, 32(6), 627-641. doi:10.1002/per.2169
[Preprint: psyarxiv.com/8mpua | Example Code: osf.io/ftsrd]

Book Chapters

- Humberg, S.**, Förster, N., Kaiser, J., Schönbrodt, F. D. (2017). Konsequenzen akkurater Lehrerurteile: Response Surface Analyse als statistisches Verfahren zur Untersuchung von Übereinstimmungshypothesen. In A. Südkamp, A.-K. Praetorius (Hrsg.). *Diagnostische Kompetenz von Lehrkräften: Theoretische und methodische Weiterentwicklungen* (S. 174-200). Münster: Waxmann.
[Example Code: osf.io/yzq59]

Published Software

- Schönbrodt, F. D. & **Humberg, S.** (2020). RSA: An R package for response surface analysis. Retrieved from <https://cran.r-project.org/package=RSA>