Julien Patrick Irmer

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■ Academia

Goethe-University Frankfurt

Since 2019	PhD Student
2017 – 2019	Master of Science: **Mathematics**
2016 – 2021	Master of Science: **Psychology**
2011 – 2017	Bachelor of Science: **Mathematics**
2011 – 2016	Bachelor of Science: **Psychology**

Adelaide High School, South Australia

2009 – 2011	South Australian Certificate of Education

■ Theses

2021	M.Sc. Psychology thesis: „*When Can Ordered Categorical Variables be Treated as Continuous in Quadratic and Interaction Structural Equation Modeling? – A Comparison of Latent Moderated Structural Equations (LMS) with Nonlinear Factor Score and Regression Methods*“
2019	M.Sc. Mathematics thesis: „*Linear and Quadratic Structural Equation Modeling – Studying the Unobservable*“
2017	B.Sc. Mathematics thesis*: „Do Things Change? — An Analysis of the FDpV – Filtered Derivative with p-Value Method*“
2016	B.Sc. Psychology thesis: „*The Instrument for Stress Oriented Job Analysis (ISTA) – A Meta-Analytical Validation Using the Challenge Stressor-Hindrance Stressor Concept and the Job Demands-Resources Model*“

■ Scholarships and Awards

2021	**Young-YAVIS-Award** from the institute of Psychology of Goethe-University Frankfurt for outstanding teaching
2019	Prize for the **best Master's degree of the academic year 2018/2019** at the Institute of Mathematics at Goethe University Frankfurt am Main (awarded by Alte Leipziger Lebensversicherung a. G. and the Association for the Promotion of Mathematics at Goethe University Frankfurt e.V.)
2019 – 2019	**Deutschlandstipendium** of Goethe- University Frankfurt (Mathematics)
2017 – 2018	**Deutschlandstipendium** of Goethe- University Frankfurt (Mathematics)
2010	**Certificate of Outstanding Academic Achievements** for Mathematical Studies at Adelaide High School

■ Experiences

since 2019	**Research Assistant** at the lab „Methodology Division" at the Institute of Psychology at Goethe-University Frankfurt
2017 – 2019	**Student Assistant** in the DFG (German Research Foundation) project „Methodology Division" at the Institute of Psychology about quasi maximum Likelihood methods.
2017 – 2018	**Research-Internship** about EEG data analyses and the influence of filter techniques on Independent Component at the "Neuro-Lab" at Goethe-University Frankfurt
2015	**Internship** at the International Technical Research Center of Adam Opel AG
2012 – 2016	**Student Assistant** for data collection and organisation for several hazard analyses at the workplace at the lab for work and organizational psychology at Goethe-University Frankfurt

■ Teaching Experience

As Lecturer (since 2019)

since 2021	**Seminar:** Advanced research methodology for psychotherapists (W 2021/22, W 2022/23)
since 2020	**Seminar:** Research methods and evaluation II (S 2020, S 2021, S 2022)
since 2019	**Seminar:** Statistics II (Advanced) (S 2019, S 2020, S 2021, S 2022) **Seminar:** Research methods and evaluation I (W 2019/20, W 2020/21, W 2021/22)
2021 – 2022	**Seminar:** Statistics (W 2021/22)
2020 – 2021	**Seminar:** Research course in work and organzation psychology (S 2020 W 2020/21) **Seminar:** Research coures in research methods and evaluation (W 2020/21)

As Student (2015 – 2019)

2018	**Tutorium**: Research methods and evaluation II (S 2018)
2017 – 2019	**Tutorium**: Research methods and evaluation I (W 2017/18, W 2018/19)
2017 – 2018	**Tutorium**: Practical course in Python for psychologists (W 2017/18)
2016	**Tutorium**: Statistics 2 for B.Sc. and M.Sc. in Mathematics (S 2016)
2015 – 2016	**Tutorium**: Statistics 2 for B.Sc. and M.Sc. in Psychology (S 2015, S 2016) **Tutorium**: Statistics 1 for B.Sc. and M.Sc. in Psychology (W 2015/16) **Tutorium**: Statistics 1 for B.Sc. and M.Sc. in Mathematics (W 2015/16, W 2016/17) **Tutorium**: Statistics for environmental science: statistics with R (W 2015/16, W 2016/17)

■ Reviewer Activities

2020   Journal of Affective Disorders

■ Publications

Ehmann, P., Beavan, A., Spielmann, J., Mayer, J., Altmann, S., Ruf, L., Rohrmann, S., **Irmer, J. P.,** Englert, E. (2022). Perceptual-cognitive performance of youth soccer players in a 360°-environment – Differences between age groups and performance levels. *Psychology of Sport & Exercise, 59*(102120), 1-7. https://doi.org/10.1016/j.psychsport.2021.102120

Schermelleh-Engel, K., Gäde, J.C. & **Irmer, J. P.** (2021). R-Syntax - direkte Programmierung zu Kapitel 14: Klassische Methoden der Reliabilitätsschätzung. Zusatzmaterialien zu H. Moosbrugger & A. Kelava (Hrsg.), Testtheorie und Fragebogenkonstruktion (3., vollständig neu bearbeitete, erweiterte und aktualisierte Auflage). Heidelberg: Springer. http://www.lehrbuch-psychologie.springer.com.

Schermelleh-Engel, K., Gäde, J.C. & **Irmer, J. P.** (2021). M*plus*-Syntax - direkte Programmierung zu Kapitel 14: Klassische Methoden der Reliabilitätsschätzung. Zusatzmaterialien zu H. Moosbrugger & A. Kelava (Hrsg.), Testtheorie und Fragebogenkonstruktion (3., vollständig neu bearbeitete, erweiterte und aktualisierte Auflage). Heidelberg: Springer. http://www.lehrbuch-psychologie.springer.com.

Irmer, J. P., Kern, M., Schermelleh-Engel, K., Semmer, N. K., & Zapf, D. (2019). ISTA -The instrument for stress oriented job analysis – a meta-analysis. *Zeitschrift für Arbeits- & Organisationspsychologie – German Journal of Work and Organizational Psychology, 63*(4), 217-237. https://doi.org/10.1026/0932-4089/a000312

■ Electronic Ressources

Schultze, M., **Irmer, J. P.,** Nehler, K. J., & Rouchi, H. (eds.) (2022*). PandaR: Praktische Anwendungen der Datenanalyse in R*. [Practical ApplicatioNs of Data Analysis in R] https://pandar.netlify.com/

Schmalbach, B. & **Irmer, J. P.,** & Schultze, M. (2019*). ezCutoffs: Fit Measure Cutoffs in SEM*. R-package version 1.0.1. https://CRAN.R-project.org/package=ezCutoffs https://doi.org/10.13140/RG.2.2.16315.77600

■ Presentations

Irmer, J. P., Klein, A. G., & Schermelleh-Engel, K. (2022, October). Challenges faced in simulation studies examining nonlinear SEM with distributional misspecification of continuous and ordered-categorical data. *Präsentation auf dem 2. Methoden Retreat für Jungwissenschaftler*innen, 05.-07.10.2022 in Kassel, Deutschland.*

Irmer, J. P., Klein, A. G., & Schermelleh-Engel, K. (2022, September). Treating ordered-categorical data as continuous in nonlinear SEM: The crucial role of the distribution of the dependent variables*. Präsentation auf dem 52. Kongress der Deutschen Gesellschaft für Psychologie (DGPS), 10.-15.09.2022 in Hildesheim, Deutschland.*

Klein, A.G. & **Irmer, J. P** (2022, September). Causal interpretation of statistical models – Can scientific philosophers give directions for statistical modeling? *Präsentation auf dem 52. Kongress der Deutschen Gesellschaft für Psychologie (DGPS), 10.-15.09.2022 in Hildesheim, Deutschland.*

Irmer, J. P., Büchner, R. B., & Klein, A. G. (2021, März). A quasi-likelihood ratio test to evaluate heterogeneous growth. *Präsentation auf dem 1. Methoden Retreat für Jungwissenschaftler*innen, 24.-26.03.2021 in Aachen (Online), Deutschland.*

Irmer, J. P, Klein, A. G., Gäde, J. C., & Schermelleh-Engel, K. (2021, März). When data are not perfect: Robustness of LMS compared to regression methods when categorical data are treated as continuous. *Presentation at the Meeting of the Working Group Structural Equation Modeling 2021, 18 -19 March 2021 in Vienna (Wien, Online), Germany.*

Irmer, J. P., Büchner, R. B., Schneider, G., & Klein, A. G. (2019, September). A quasi-likelihood ratio test to evaluate nonlinear SEM using the quasi maximum likelihood method. *Präsentation auf der 14. Tagung der Fachgruppe Methoden & Evaluation der Deutschen Gesellschaft für Psychologie, 15.-18.09.2019 in Kiel, Deutschland.*

Holman, D., Escaffi Schwarz, M., Vasquez Guerra, C., **Irmer, J. P.**, & Zapf, D. (2019, June). A meta-analytic test of the core mediational proposition of job crafting theory: Are the effects of job crafting on employee outcomes mediated by job characteristics? *Presentation at the EAWOP Small Group Meeting on "Antecedents of Work Design" of the European Association of Work and Organizational Psychology, 3-4 June 2019 in Amsterdam, the Netherlands.*

Irmer, J. P., Büchner, R. D., & Klein, A. G. (2019, February, March). Global Model Fit Test for Nonlinear SEM Using the Quasi Maximum Likelihood Method. *Presentation at the Meeting of the Working Group Structural Equation Modeling 2019, 28 February-1 March 2019 in Tübingen, Germany.*

Irmer, J. P, Büchner, R. D., & Klein, A. G. (2018, September). Zur Robustheit des Quasi-Likelihood-Quotienten-Tests für nichtlineare Strukturgleichungsmodelle. *Präsentation auf dem 51. Kongress der Deutschen Gesellschaft für Psychologie (DGPS), 17.-20.09.2018 in Frankfurt am Main, Deutschland.*

Irmer, J. P., Kern, M., Semmer, N. K., & Zapf, D. (2015, September). Meta-analytical Results on the Challenge-Hindrance-Stressor Concept using the Instrument of Stress-oriented Job Analysis ISTA. *Präsentation auf der 9. Fachgruppentagung Arbeits-, Organisations- und Wirtschaftspsychologie, 24.-26.09.2015 in Mainz, Deutschland.*

■ Invited Talks

Irmer, J. P (2022, October). PandaR as an Example for Open Teaching Practices. *Invited talk in ReproducibiliTea Frankfurt of Frankfurt Open Science at Goethe-University Frankfurt, Germany.* *https://osf.io/g2tbw*

Irmer, J. P (2021, June). Nichtlineare Strukturgleichungsmodelle [Nonlinear Structural Equation Modeling]. *Eingeladener Vortrag im Rahmen des Forschungskolloquiums der Abteilung Psychologische Methodenlehre, Humboldt-Universität zu Berlin, Berlin, Deutschland [Invited talk in the research colloquium of the psychological methods department at Humbold University Berlin, Germany].*