

Daniel Leibovitz

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Employment & Research

- 2022–now **Principal Biostatistician**, *Incyte*, Switzerland.
R&D for Company-wide Statistical Platform, Statistics for Clinical Trials
- 2021–2022 **Graduate Biostatistics Intern**, *Bristol Myers Squibb*, Switzerland.
Applied research on crossover in RCTs. Built crossover simulator for internal BMS use.
- 2020–2021 **Wearable Devices Statistician**, *Ava*, Switzerland.
Stats lead on wearable device efficacy. Modelling, ETL, versioning, & results communication.

Other

- 2018–2019 **Project Lead**, *Social Change Factory*, Senegal.
- 2017–2018 **Clinical Research Assistant**, *Provincial OCD Program BC Children's*, Canada.
- 2016–2017 **Neuroscience Research Assistant**, *Seaman's Lab UBC*, Canada.
- 2016–2017 **Psychology Research Assistant**, *Weber Lab UBC*, Canada.
- 2016–2017 **Psychology Research Assistant**, *Peer Relations Lab UBC*, Canada.
- 2016–2017 **Medical Research Assistant**, *UCLA Brain Tumor Program*, U.S.A.

Education

- 2019–2021 **Master Biostatistics**, *University of Zurich*, Zurich.
Thesis: Mixtures of Partially Linear Models with Monotone Shape Constraints
Supervisors: Matthias Löffler, Torsten Hothorn
- 2016–2017 **Computer Science (Diploma Program)**, *Simon Fraser University*, Canada.
Coursework in OOP, Relational Databases, Operating Systems, etc.
- 2014–2015 **Bachelor Psychology**, *University of British Columbia*, Canada.
- 2011–2013 **Associate Political Science**, *Deep Springs College*, U.S.A.

Technical Skills

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|------------|--|------------|--|
| Statistics | Causal Inference, Bayesian Stats, High-Dimensional Inference | ML | Time-Series, Clustering, Classification, Ensemble Learning |
| Languages | R, Python, Java, SQL/noSQL | Frameworks | git, Bash, Docker |

Languages

English Native
French Fluent

Spanish Fluent
ASL Conversational

References

Alessandro Previtali, Associate Director of Biostatistics, Bristol Myers Squibb.
contact: Alessandro.Previtali@bms.com

Matthias Loeffler, Post-Doctoral Researcher, ETH Zurich.
contact: Matthias.loeffler@quantco.com

Martina Rothenbuhler, Project Leader Data Science, Diabetes Center Bern.
contact: Martina.Rothenbuehler@gmail.com

Publications

- [1] **D Leibovitz**, A Previtali, J Lymp, R Ananthakrishnan. *simswitch: A Novel Treatment Switching Simulator*. [In submission to Journal of Statistical Software]. 2022.
- [2] S Halvachizadeh §, **D Leibovitz §**, L Held, K O Jensen. § indicates equal contribution. *The number of beds occupied is an independent risk factor for discharge of trauma patients*. Accepted in Medicine (by Elsevier). 2022.
- [3] M Risch, K Grossmann, S Aeschbacher, O C Weideli, M Kovac, F Pereira, N Wohlwend, C Risch, D Hillmann, T Lung, H Renz, R Twerenbold, M Rothenbühler, **D Leibovitz**, V Kovacevic, A Markovic, P Klaver, T B Brakenhoff, B Franks, M Mitratza, G S Downward, A Dowling, S Montes, D E Grobbee, M Cronin, D Conen, B M Goodale, L Risch. The Lancet (preprint), doi: 10.2139/ssrn.3900401 *Investigation of the Use of a Sensor Bracelet for the Pre-Symptomatic Detection of COVID-19: A National Cohort Study (COVI-Gapp)*.. The Lancet, doi: 10.2139/ssrn.3900401, 2022.
- [4] M Risch, K Grossmann, S Aeschbacher, O C Weideli, M Kovac, F Pereira, N Wohlwend, C Risch, D Hillmann, T Lung, H Renz, R Twerenbold, M Rothenbühler, **D Leibovitz**, V Kovacevic, A Markovic, P Klaver, T B Brakenhoff, B Franks, M Mitratza, G S Downward, A Dowling, S Montes, D E Grobbee, M Cronin, D Conen, B M Goodale, L Risch. *Investigation of the use of a sensor bracelet for the presymptomatic detection of changes in physiological parameters related to COVID-19: an interim analysis of a prospective cohort study (COVI-GAPP)*.. BMJ Open, doi: 10.1136/bmjopen-2021-058274, 2021.
- [5] A Lindsay, B Caracheo, B Grewal, **D Leibovitz**, J Seamans. How much does movement and location encoding impact prefrontal cortex activity? An algorithmic decoding approach in freely moving rats. eNeuro, doi: 10.1523/ENEURO.0023-18. Title 2018.

- [6] 2015 RC Weber, A Lee, K Walsh, JCBR Pinto, **D Leibovitz**, M Morton. Family variables and cognitive development in children: A meta-analysis of current literature. Paper presented at the annual meeting of the American Psychological Association, Denver, CO, United States. *Title* year.

Talks

- 2022 **The Least Bad Option: A Simulation Approach to Minimizing Bias When Accounting for Treatment Switching in RCTs**, *Joint Statistical Meeting*, Washington D.C., U.S.A.
- 2022 **Simulating Data and Bias in the Analysis of Trials with Treatment Switching**, *Statisticians in the Pharmaceutical Industry*, Gothenburg, Sweden.
- 2021 **Mixtures of Monotone Regressions: A Novel Model**, *UZH Biostatistics Colloquium*, Zurich, Switzerland.
- 2015 **Executive Functions as a Predictor of Peer-Relation Difficulties in Children with ADHD.**, *Canadian ADHD Resource Alliance Conference*, Vancouver, Canada.