

# Curriculum Vitae

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## Daniel Fridljand

Incoming exchange scholar

Yale Graduate School of Arts and Sciences

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## Research interest

I am enthusiastic about applying mathematical ideas to solve real-world problems, by developing interpretable statistical methods, accompanied by robust software implementations. From a statistical perspective, this interest encompasses high-dimensional data, selective inference, and supervised learning.

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## Education

<b>Yale Univ.</b> Aug 2022 - May 2023 (scheduled)	<b>Visiting exchange scholar</b> Applied Mathematics Academic advisor: Prof. Dr. Smita Krishnaswamy
Univ. of <b>Heidelberg</b> Oct 2020 - present	<b>M.Sc. (Mathematics)</b> , Grade average 1.1 Thesis advisor: Dr. Wolfgang Huber (EMBL), Prof. Dr. Jan Johannes Thesis title: <i>Better multiple Testing: Using multivariate co-data for hypotheses</i>
Hebrew Univ. of <b>Jerusalem</b> Sep 2019 - Mar 2020	<b>Non-graduating exchange student</b> Mathematics
Univ. of <b>Heidelberg</b> Oct 2017 - Sep 2020	<b>B.Sc. (Mathematics)</b> , Grade 1.4 Thesis advisor: Prof. Dr. Jan Johannes Thesis title: <i>Online estimation of the geometric median in Hilbert spaces</i> Minor in Computer Science
Karl-Friedrich-Gymnasium <b>Mannheim</b> Sep 2009 - Jun 2017	<b>Abitur</b> , Grade 1.0 (A* GCSE)

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## Research appointments

European Molecular Biology Laboratory ( <b>EMBL</b> ) Oct 2021 – May 2022	<b>Research assistant</b> , in the group of Dr. Wolfgang Huber. Extension of a weighted multiple testing procedure (Ignatiadis and Huber, 2021) to multivariate covariates via a random forest approach.
Heidelberg Institute of Global Health ( <b>HIGH</b> ) Oct 2020 - Sep 2021	<b>Research assistant</b> , Principal Investigator: Dr. Pascal Geldsetzer (Stanford Univ.). Key responsibilities: development of methodology and the modeling approach, data curation/governance, the implementation (statistical programming in R), drafting the initial manuscript and the technical supplement.

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## Awards and Fellowships

Sep 2022 – May 2023 (scheduled)	<b>Scholarship</b> , German Academic Exchange Service (DAAD) Support for my study abroad at Yale univ.
Oct 2021 - present	<b>Young Researchers Convent, Cluster of Excellence STRUCTURES</b> Part of Germany's Excellence Strategy: A unifying approach to emergent phenomena in the physical world, mathematics, and complex data.

Aug 2021 - Nov 2021	<b>Baden-Württemberg Scholarship</b> I was awarded the scholarship for my exchange semester at the University of Sydney, which was eventually cancelled because of the Covid-19 pandemic.
Sep 2019	<b>PROMOS Scholarship</b> , German Academic Exchange Service (DAAD) The scholarship supports study abroad stays and language courses. In Jerusalem I took an intensive one-month Hebrew course.
Oct 2017 - Aug 2022	<b>Merit Scholarship from Gerhard C. Starck Foundation</b> This scholarship is awarded to gifted Jewish students in German-speaking countries who show academic excellence.
Jun 2017	<b>DPG Abitur award (German Physical Society)</b>

### Working paper

1. **Fridljand, D.** (joint first author), Geldsetzer, P. (joint first author), Kiang, M., Bendavid E., Heft-Neal S., Burke M., Benmarhnia T. (2022). *Variation and time trends in mortality attributable to particulate matter exposure by race-ethnicity, education, and urbanicity in the United States*. Working paper.

### Teaching

<b>Springer Nature</b> Aug 2019	Created a set of mathematical exams for Molecular Biology students. Specific focus on statistics in the laboratory.
<b>Studybees</b> Apr 2018 - Aug 2019	Tutoring a total of 10 courses for students of Mathematics and Computer science Department, business school at University of Mannheim.

### Talks and Presentations

Jun 1, 2022 (scheduled)	<b>Better multiple Testing: Using multivariate co-data for hypotheses</b> Young Statisticians Lecture Series: Modern Statistical Methods for Life Sciences German Region of the International Biometric Society Virtual presentation.
Mar 29, 2022	<b>Better multiple Testing: Using multivariate co-data for hypotheses</b> DAGStat Conference (German Statistical Society) University of Hamburg.
Jan 28, 2022	<b>Better multiple Testing: Using multivariate co-data for hypotheses</b> Snapshots of Theory@EMBL Mini-Symposium Virtual presentation.

### Professional Service

<b>Journal peer review</b>	Bioinformatics Advances, Cell Biology
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### Professional memberships

German Region of the International Biometric Society (**IBS-DR**), German Association for Medical Informatics, Biometry and Epidemiology (**GMDS**)

### Languages

**German** (Native), **Russian** (Intermediate), **English** (Proficient; TOEFL (iBT) score: 110/120)