

## Stephan Ripke, M.D., Ph. D.

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### SUMMARY

- Professor for Statistical Genetics
  - Ph.D. with over 10 years research experience in statistical genetics
  - First author of multiple seminal publications in Nature and Nature Genetics
  - Leader of the statistical analysis group of the Psychiatric Genomics Consortium (PGC) for over 6 years
  - Winner of multiple awards and grants in the medical research field
- Medical Doctor with 3 years of clinical training
- Strong computational and statistical skills combined with extensive experience providing service analyses

### EXPERIENCE

**Broad Institute, Stanley Centre / Massachusetts General Hospital, Harvard, Cambridge, MA** 10/2008 – present

- *Research Scientist with Mark Daly at Analytic and Translational Genetics Unit*
- *Group Leader Statistical Analysis Group of the Psychiatric Genomics Consortium (PGC)*
  - Applying common variant analysis, including quality control, imputation, principal component analysis, meta- and secondary analyses, as part of the PGC and also with various genetic research groups around the world. Including many larger consortiums such as the Inflammatory Bowel Disease Consortium, ENIGMA and IMAGEN
  - Developing a novel analysis pipeline in Perl, Python, R, C++ on the computer cluster LISA (Netherlands) and Broad Institute (Cambridge, MA)
  - Delivering presentations at international conferences (such as World Congress of Psychiatric Genetics, American Society of Human Genetics Meeting) and regional labs on a regular basis
  - Closely collaborating with leading experts in the field (Mark Daly, Shaun Purcell, Benjamin Neale, Paul deBakker, David Altshuler, Eric Lander, Mick O'Donovan, Patrick Sullivan)
  - Authored 100+ publications (15+ as first/last author) in the field of statistical genetics (see attached publication record)
  - Received multiple awards in the field of human genetics such as Theodor Reich Young Investigator Award and Sidney R. Baer, Jr., Prize (see "Awards" page 2)

**Charité, Department of Psychiatry, Berlin, Germany** 07/2014 – present

- *Professor / PI Laboratory for Statistical Genetics*
  - Leading an independently funded large-scale recruitment and research project. Currently recruiting 2000 individuals for common variant analyses
  - Leader of the GWAS Research Unit ("GResU") at Berlin Institute of Health
  - Teaching and advising PhD students and postdoctoral fellows

### RESEARCH SKILLS

- Experienced programmer in C/C++, awk/sed, perl, python, R, shell scripts, cluster computing (qsub, bsub, SLURM)
- Genetic association analysis of large scale data with extensive experience in:
  - association analysis: case/control, trio, qualitative and quantitative phenotypes
  - data quality control, imputation of missing genetic information (HM2, HM3, 1000Genomes)
  - population stratification analysis (principal component analysis)
  - annotation (UCSC), genetic structure (LD), pathway analyses
  - handling, storing, extracting and combining various data formats (incl. VCF, CEL Files)
  - experienced user of PLINK, EIGENSTRAT, BEAGLE, METAL, MACH, IMPUTE\_V2, HAPLOVIEW, SHAPEIT, EAGLE, BVFTOOLS, WG-PERMER, FINE
  - MAP, SUSIE and other genetic analysis tools
  - parametric and nonparametric linkage analysis

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- Next Generation sequencing analysis

### EDUCATION

2014 Ph.D. in Statistical Genetics (Common variant analysis and psychiatric disease) Utrecht, Netherlands  
2002 Doctor of Medicine (M.D.) in Statistical Genetics (linkage analysis), Hamburg, Germany  
1994 – 2001 Medical Schools of the Universities of Heidelberg and Hamburg, Germany

### AWARDS

- Heisenberg Professorship, Deutsche Forschungs Gesellschaft (DFG) 2017
- 2015 NARSAD YOUNG Investigator Grant 2015
- Paper of the Year, International Society of Psychiatric Genetics. WCPG, Toronto 2015
- The Sidney R. Baer, Jr., Prize of the Brain & Behavior Research Foundation  
<https://bbrfoundation.org/2014-outstanding-achievement-prizewinner> 2014
- Theodor Reich Young Investigator Award of the International Society of Psychiatric Genetics.  
<http://2013.ispg.net/wp-content/uploads/2013/09/WCPGProgramBook2013.pdf> (page 15) 2013
- Oral Presentation Award, WCPG, Hamburg 2012

### PUBLICATIONS

173 publications with impact factor of **2564** (17/364 as first/last author), H index **85**, five most important publications:

- **Ripke S**, Schizophrenia Working Group of the Psychiatric Genomics Consortium, et al., "Biological insights from 108 schizophrenia-associated genetic loci." (2014). **Nature** 511(7510):421-7. (IF: **42.4**)
- Smoller JW\*, **Ripke S\***, Cross-Disorder Group of the Psychiatric Genomics Consortium, et al., "Identification of risk loci with shared effects on five major psychiatric disorders: a genome-wide analysis." (2013). **Lancet** 381(9875):1371-9. (IF: **39.2**)
- Jostins L\*, **Ripke S\***, et al., "Host-microbe interactions have shaped the genetic architecture of inflammatory bowel disease." (2012). **Nature** 491(7422):119-24. (IF: **38.6**)
- **Ripke S\***, Schizophrenia Psychiatric Genome-Wide Association Study (GWAS) Consortium\*, et al., "Genome-wide association study identifies five new schizophrenia loci." (2011). **Nat Genet** 43(10):969-76. (IF: **35.5**)
- **Ripke S\***, O Dushlaine C\*, et al., "Genome-wide association analysis identifies 13 new risk loci for schizophrenia." (2013). **Nat Genet** 45(10):1150-9. (IF: **29.6**)

\* contributed equally. For a complete list including 100+ oral presentations please see: <https://scholar.google.com/citations?user=trMrAoUAAAAJ>

### GRANTS

Sum of listed third party funds: \$1.533.000

- **Heisenberg Professorship**, DFG, 2018 - 2023 \$583,000
- **NARSAD, BBRF** Young Investigator Grant, 2016-2018 \$70,000
- **Sydney Bear Prize Award**, Gift \$20,000
- **Stanley Center Grant**, 2016-2017 \$183,000
- **Stanley Center Grant** 2017-2018 \$110,000
- **Stanley Center Grant** 2019-2020 \$150,000
- **NIMH, U01**, PGC3, 2017-2022 \$417,000