

Swapnil Awasthi

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Education

1. Currently working as a scientific assistant (also enrolled as Doctoral Student)
Charité – Universitätsmedizin Berlin.
2. Master of Science (MSc) Life Science Informatics (Oct 2012 - July 2015)
Rheinische Friedrich-Wilhelms-Universität Bonn.
3. Bachelor of pharmacy (August 2007 - May 2011)
Pranveer Singh Institute of Technology, Kanpur India.

Research experience:

1. **Student assistant**
Fraunhofer IAIS, Bonn, Germany
Responsibility: Patent searching for neurodegenerative disorders. Data mining and annotation based on these patents for the patent searching project.
2. **Student assistant & master thesis candidate**
Cologne Center for Genomics, University of Cologne, Germany
Responsibility: Developing filtering techniques, optimization, and benchmarking of tools to detect breakpoints in WES data (of a single patient, cohort, trios, and gene panel data.) and integrating the workflow in the inhouse pipeline.

Skills:

Python, R, Statistics, Data Analysis, Data Wrangling, Databases, Genome-wide association studies, Plink, Psychiatric disorders, Complex traits, Machine learning, Deep learning, Web development (Laravel).

Publications

- Total **11 publications** with a cumulative impact factor of **143**.
- **2 publications** with first/co-first author with a cumulative impact factor of **19**.
- H index: **9**

1. First or co-first author

- Lam, M^{*}., [Awasthi, S^{*}.](#), Watson, H. J., Goldstein, J., Panagiotaropoulou, G., Trubetskoy, V., Karlsson, R., Frei, O., Fan, C. C., De Witte, W., Mota, N. R., Mullins, N., Brügger, K., Lee H., Wray, N., Skarabis, N., Huang, H., Neale, B., Daly, M., Mattheissen, M., Walters, R., Ripke, S., *RICOPILI: Rapid Imputation for COnsortias PipeLine*, *Bioinformatics* 2019 Aug 8; pii: btz633. doi: 10.1093/bioinformatics/btz633. **[IF: 5.8]**
- Forstner, A.J^{*}., [Awasthi, S^{*}.](#), Wolf, C^{*}. et al. *Genome-wide association study of panic disorder reveals genetic overlap with neuroticism and depression*, *Molecular Psychiatry* 2019 Nov 11; doi:10.1038/s41380-019-0590-2 **[IF: 13.3]**

2. Co-authors

- Kogelman, L. J. A., Esserlind, A. L., Christensen, A. F., [Awasthi, S.](#), Ripke, S., Ingason, A., Davidsson, O. B., Erikstrup, C., Hjalgrim, H., Olesen, J., Hansen, T. F. DBDS Genomic Consortium, The International Headache Genetics Consortium *Migraine polygenic risk score associates with efficacy of migraine-specific drugs*. *Neurology* 2019 Dec, 5(6) e364; DOI: 10.1212/NXG.0000000000000364 **[IF: 8.2]**
- Spalthoff, R., Degenhardt, F., [Awasthi, S.](#), Heilmann-Heimbach, S., Besteher, B., Gaser, C., Ripke, S., Nöthen, M. M., Nenadić, I. *Effects of a neurodevelopmental genes based polygenic risk score for schizophrenia and single gene variants on brain structure in non-clinical subjects: A preliminary report*. *Schizophrenia Research*. 2019 Oct; 212:225-228. doi: 10.1016/j.schres.2019.07.061. Epub 2019 Aug 6 **[IF: 4.5]**
- Stahl, E. A., Breen, G., Forstner, A. J., McQuillin, A., Ripke, S., Trubetskoy, V., Mattheisen, M., Wang, Y., Coleman, J. R. I., Gaspar, H. A., de Leeuw, C. A., Steinberg, S., Pavlides, J. M. W., Trzaskowski, M., Byrne, E. M., Pers, T. H., Holmans, P. A., Richards, A. L., Abbott, L., Agerbo, E., Akil, H., Albani, D., Alliey-Rodriguez, N., Als, T., Anjorin, A., Antilla, V., [Awasthi, S.](#) et al. *Genome-wide association study identifies 30 loci associated with bipolar disorder*. *Nature Genetics*. 2019 May;51(5):793-803. doi: 10.1038/s41588-019-0397-8. Epub 2019 May 1. **[IF: 31.6]**

- d. Kaminski, J. A., Schlagenhauf, F., Rapp, M., [Awasthi, S.](#), Ruggeri, B., Deserno, L., Banaschewski, T., Bokde, A. L. W., Bromberg, U., Büchel, C., Quinlan, E. B., Desrivieres, S., Flor, H., Frouin, V., Garavan, H., Gowland, P., Ittermann, B., Martinot, J. L., Martinot, M. P., Nees, F., Orfanos, D. P., Paus, T., Poustka, L., Smolka, M. N., Fröhner, J. H., Walter H., Whelan, R., Ripke, S., Schumann, G., Heinz, A.; IMAGEN consortium. *Epigenetic variance in dopamine D2 receptor: a marker of IQ malleability?* **Translational Psychiatry**. 2018 Aug 30; 8(1):169. doi: 10.1038/s41398-018-0222-7. [IF: 5.5]
- e. Savage, J. E., Jansen, P. R., Stringer, S., Watanabe, K., Bryois, J., de Leeuw, C. A., Nagel M., [Awasthi, S.](#), Barr, P. B., Coleman, J. R. I., Grasby, K. L., et al. *Genome-wide association meta-analysis in 269,867 individuals identifies new genetic and functional links to intelligence.* **Nature Genetics**. 2018 Jul; 50(7):912-919. doi: 10.1038/s41588-018-0152-6. Epub 2018 Jun 25. [IF: 31.6]
- f. Ruderfer, D. M., Ripke, S., McQuillin, A., Boocock, J., Stahl, E. A., Pavlides, J. M. W., Mullins, N., Charney, A. W., Ori, A. P. S., Loohuis, L. M. O., Domenici, E., Di Florio, A., Papiol, S., Kalman, J. L., Trubetskoy, V., Adolfsson, R., Agartz, I., Agerbo, E., Akil, H., Albani, D., Albus, M., Alda, M., Alexander, M., Alliey-Rodriguez, N., Als, T. D., Amin, F., Anjorin, A., Arranz, M. J., [Awasthi, S.](#), et al. *Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes,* **Cell**. 2018 Jun 14; 173(7):1705-1715.e16. doi: 10.1016/j.cell.2018.05.046. [IF: 28.7]
- g. Nenadic, I., Gräger, S., [Awasthi, S.](#), Langbein, K., Dietzek, M., Besteher, B., Ripke, S., Noethen, M. M., Sauer, H., Gaser, C., Degenhardt, F., F170. *Schizophrenia Polygenic Risk Score Associated With Left Temporal Gyrification,* **Schizophrenia Bulletin**, 2018 April 01, Volume 44, Issue suppl_1, 1, Page S287, <https://doi.org/10.1093/schbul/sby017.701> [IF: 7.8]
- h. Streit, F., Jungkunz, M., Frank, J., [Awasthi, S.](#), Reinbold, C. S., Treutlein, J., Degenhardt, F., Forstner, A. J., Heilmann-Heimbach, S., et al. *Genome-wide association study of borderline personality disorder reveals genetic overlap with bipolar disorder, major depression and schizophrenia,* **Translational Psychiatry**. 2017 Jun 20;7(6):e1155. doi: 10.1038/tp.2017.115. [IF: 5.5]
- i. Sharma, G., [Awasthi, S.](#), Dixit, A., Sharma, G., *Patient safety risk assessment and risk management: A review on Indian hospitals.* **Chronicles of Young Scientists** 2011; 2:186-91. [IF: 0.3]

