Shalaila S. Haas

Instructor (PI Track) in the Department of Psychiatry
Icahn School of Medicine at Mount Sinai
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ABOUT

Shalaila Haas is a cognitive neuroscientist interested in utilizing machine learning methods to link behavior with neural signatures (neurosignatures) for identification, prognosis, and treatment response prediction in clinical and non-clinical populations. She has identified both structural and functional neurosignatures of symptoms and language dysfunction, age-related cognitive decline, and response to computerized cognitive training. Her current research seeks to understand the underlying mechanisms driving heterogeneity of the clinical presentation and course of psychosis spectrum disorders, and its relation to accelerated aging in schizophrenia.

EDUCATION

Ph.D. Ludwig Maximilian University of Munich · *Medical Research*, 2019
Graduate Program: *Translational Psychiatry* at the International Max Planck Research School
Mentors: Dr. Nikolaos Koutsouleris & Dr. Lana Kambeitz-Ilankovic

M.S. Ludwig Maximilian University of Munich · *Neuro-Cognitive Psychology*, 2015

B.A. University of California, Berkeley · *Psychology*, 2012

PROFESSIONAL EXPERIENCE

2022-23 **Icahn School of Medicine at Mount Sinai** · *Instructor (PI Track)* New York, NY, US
Longitudinal investigation of the role of accelerated brain and body aging for cognition in schizophrenia under mentorship of Profs. Sophia Frangou and René S. Kahn.

2021-22 **Icahn School of Medicine at Mount Sinai** · *Postdoctoral Fellow* New York, NY, US
Machine learning applied to multimodal neuroimaging to parse heterogeneity in clinical populations under mentorship of Profs. Sophia Frangou and René S. Kahn.

2019-21 **Icahn School of Medicine at Mount Sinai** · *Postdoctoral Fellow* New York, NY, US
Investigating the neural mechanisms underlying cognition and language dysfunction in individuals at risk for psychosis under mentorship of Profs. Cheryl M. Corcoran and Sophia Frangou.

2022-23 **Ludwig Maximilian University** · *Lecturer* Munich, DE
Lecturer in Master's-level course *WP4 - Introduction to multivariate and neuroimaging methods*.

2015-19 **Ludwig Maximilian University** · *Graduate Research Assistant (GRA)* Munich, DE
Clinical patient recruitment for the multi-site EU PRONIA Consortium. Responsible for clinical and neuropsychological assessment, multimodal MRI acquisition and quality assurance.

2013-15 **Ludwig Maximilian University** · *GRA - Visual Attention Research Lab* Munich, DE
Conducted fundamental research experiments underlying attentional processes using eye-tracking and EEG.

PUBLICATIONS

Journal Articles

Published

2023 **Haas, S. S.**, Ge, R., Agartz, I., Amminger, G. P., Andreassen, O. A., Bachman, … Frangou, S. (2023). Normative modeling of brain morphometry in Clinical High-Risk for Psychosis. BioRxiv, 2023.01.17.523348. https://doi.org/10.1101/2023.01.17.523348

2023 Ge, R., Yu, Y., Qi, Y. X., Fan, Y. V., Chen, S., Gao, C., **Haas, S. S.**, … Frangou, S. (2023). Normative Modeling of Brain Morphometry Across the Lifespan using CentileBrain: Algorithm Benchmarking and Model Optimization. BioRxiv, 2023.01.30.523509. https://doi.org/10.1101/2023.01.30.523509

2022 Schwarzer, J. M., Meyhoefer, I., Antonucci, L. A., Kambeitz-Ilankovic, L., Surmann, M., Bienek, O., Romer, G., Dannlowski, U., Hahn, T., Korda, A. and Dwyer, D. B., Ruef, A., **Haas, S. S.**, ... & Lencer, R. "The impact of visual dysfunctions in recent-onset psychosis and clinical high-risk state for psychosis." *Neuropsychopharmacology*.

2022 Baldwin, H., Radua, J., Antoniades, M., **Haas, S. S.**, Frangou, S., Agartz, I., ... & Fusar-Poli, P. "Neuroanatomical heterogeneity and homogeneity in individuals at clinical high risk for psychosis." *Translational Psychiatry*. *Translational Psychiatry*.

2022 **Haas, S. S.**, Ge, R., Sanford, N., Modabbernia, A., Reichenberg, A., Whalley, H. C., Kahn, R., & Frangou, S. "Accelerated Global and Local Brain Aging Differentiate Cognitively Impaired From Cognitively Spared Patients With Schizophrenia." *Frontiers in Psychiatry*.

2022 Sanford, N., Ge, R., Antoniades, M., Modabbernia, A., **Haas, S. S.**, Whalley, H. C., Galea, L., Popescu, S. G., Cole, J. H., & Frangou, S. "Sex differences in predictors and regional patterns of brain age gap estimates." *Human Brain Mapping*.

2022 **Haas, S. S.**, Doucet, G. E., Antoniades, M., Modabbernia, A., Corcoran, C. M., Kahn, R. S., ... & Frangou, S. "Evidence of discontinuity between psychosis-risk and non-clinical samples in the neuroanatomical correlates of social function." *Schizophrenia Research: Cognition*.

2022 Dwyer, D. B., Buciuman, M. O., Ruef, A., Kambeitz, J., Dong, M. S., ..., **Haas, S. S.**, ... & PRONIA Consortium. "Clinical, Brain, and Multilevel Clustering in Early Psychosis and Affective Stages." *JAMA psychiatry*.

2022 Oeztuerk, O. F., Pigoni, A., Wenzel, J., **Haas, S. S.**, Popovic, D., Ruef, A., ... & Koutsouleris, N. "The clinical relevance of formal thought disorder in the early stages of psychosis: results from the PRONIA study." *European Archives of Psychiatry and Clinical Neuroscience*.

2022 Bilgrami, Z. R., Sarac, C., Srivastava, A., Herrera, S. N., Azis, M., **Haas, S. S.**, Shaik, R. B., Parvaz, M. A., Mittal, V. A., Cecchi, G. & Corcoran, C. M. "Construct validity for computational linguistic metrics in individuals at clinical risk for psychosis: Associations with clinical ratings." *Schizophrenia Research*.

2022 **Haas, S. S.**, Myoraku, A., Watson, K., Robakis, T., Frangou, S., Abbasi, F., & Rasgon, N. "Lower functional hippocampal connectivity in healthy adults is jointly associated with higher levels of leptin and insulin resistance." *European Psychiatry*.

2021 Frangou, S., Abbasi, F., Watson, K., **Haas, S. S.**, Antoniades, M., Modabbernia, A., Myoraku, A., Robakis, T., & Rasgon, N. "Hippocampal volume reduction is associated with direct measure of insulin resistance in adults." *Neuroscience Research*.

2021 Kambeitz-Ilankovic, L., Vinogradov, S., Wenzel, J., Fisher, M., **Haas, S. S.**, Betz, L., Penzel, N., Nagarajan, S., Koutsouleris, N., & Subramaniam, K. "Multivariate pattern analysis of brain structure predicts functional outcome after auditory-based cognitive training interventions." *npj Schizophrenia*.

2021 Hauke, D. J., Schmidt, A., Studerus, E., Andreou, C., Riecher-Rössler, A., Radua, J., Kambeitz, J., Ruef, A., Dwyer, D. B., Kambeitz-Ilankovic, L. and Lichtenstein, T., Sanfelici, R., Penzel, N., **Haas, S. S.**, ... & Borgwardt, S. "Multimodal prognosis of negative symptom severity in individuals at increased risk of developing psychosis." *Translational Psychiatry*.

2021 Herrera, S. N., Sarac, C., Bilgrami, Z. R., Dobbs, M. F., Jespersen, R., **Haas, S. S.**, Garg, S., Shaik, R.B.,

Landa, Y., & Corcoran, C. M. “A case report and first-person account of an individual at risk for psychosis who improved during the COVID-19 pandemic.” *Psychosis*.

2021 Sarac, C., DeLuca, J. S., Bilgrami, Z. R., Herrera, S. N., Myers, J. J., Dobbs, M. F., **Haas, S. S.**, Todd, T. L., Srivastava, A., Jespersen, R. and Shaik, R. B., Landa, Y., Davidson, L., Pavlo, A. J., & Corcoran, C. M. “A qualitative study on identity in individuals at clinical high risk for psychosis:“… Why does it have to be one thing?”.” *Psychiatric Rehabilitation Journal*.

2021 Jalbrzikowski, M., Hayes, R. A., Wood, S. J., Nordholm, D., Zhou, J. H., ..., **Haas, S. S.**, ... & ENIGMA Clinical High Risk for Psychosis Working Group. “Association of structural magnetic resonance imaging measures with psychosis onset in individuals at clinical high risk for developing psychosis: an ENIGMA working group mega-analysis.” *JAMA psychiatry*.

2021 Wenzel, J., **Haas, S. S.**, Dwyer, D. B., Ruef, A., Oeztuerk, O. F., Antonucci, L. A., von Saldern, S., Bonivento, C., Garzitto, M., Ferro, A., Paolini, M., ... & Kambeitz-Ilankovic, L. “Cognitive subtypes in recent onset psychosis: distinct neurobiological fingerprints?” *Neuropsychopharmacology*.

2021 Antoniades, M., **Haas, S. S.**, Modabbernia, A., Bykowsky, O., Frangou, S., Borgwardt, S., & Schmidt, A. “Personalized estimates of brain structural variability in individuals with early psychosis.” *Schizophrenia Bulletin*.

2021 **Haas, S.S.**, Hinkley, L.B., Fisher, M., Vinogradov, S., Nagarajan, S.S., & Subramaniam, K. A Neural Biomarker for Hallucinations: Medial Prefrontal Aberrations in Neural Connectivity Predict Self-Agency Deficits and Hallucination Severity in Schizophrenia. *Journal of Brain Research*.

2021 Koutsouleris, N., Dwyer, D.B., Degenhardt, F., Maj, C., Urquijo-Castro, M.F., Sanfelici, R., Popovic, D., Oeztuerk, O., **Haas, S. S.**,... & the PRONIA Consortium. “Multimodal machine learning workflows for prediction of psychosis in patients with clinical high-risk syndromes and recent-onset depression.” *JAMA psychiatry*.

2021 **Haas, S. S.**, Antonucci, L. A., Wenzel, J., Ruef, A., Biagianti, B., Paolini, M., Rauchmann, B.S., Weiske, J., Kambeitz, J., Borgwardt, S., Brambilla, P., ... & Kambeitz-Ilankovic, L. “A multivariate neuromonitoring approach to neuroplasticity-based computerized cognitive training in recent onset psychosis.” *Neuropsychopharmacology*.

2020 Kambeitz-Ilankovic, L., Wenzel, J., **Haas, S. S.**, Ruef, A., Antonucci, L. A., Sanfelici, R., Paolini, M., Koutsouleris, N., & Biagianti, B. “Modeling social sensory processing during social computerized cognitive training for psychosis spectrum: the resting-state approach.” *Frontiers in Psychiatry*.

2020 Sarac, C., Bilgrami, Z. R., **Haas, S. S.**, Herrera, S. N., Myers, J. J., Nelson, B., Malaspina, D., & Corcoran, C. M. “Processing speed and brain volume in individuals at clinical high-risk for psychosis with comorbid eating disorders: A brief report.” *Schizophrenia Research*.

2020 **Haas, S. S.**, Doucet, G. E., Garg, S., Herrera, S. N., Sarac, C., Bilgrami, Z. R., Shaik, R. B., & Corcoran, C. M. “Linking language features to clinical symptoms and multimodal imaging in individuals at clinical high risk for psychosis.” *European Psychiatry*.

2020 Loganathan, S., Pöhlchen, D., Brivio, E., Comes, A. L., **Haas, S. S.**, Kalman, J. L., Krontira, A.C., Stamp, F., Hoch, E., & Wotjak, C. T. “Be Careful What You Feed Your Brain: Cannabis and Mental Health.” *Frontiers for Young Minds*.

2019 Antonucci, L.A., Penzel, N., Pergola, G., Kambeitz-Ilankovic, L., Dwyer, D., Kambeitz, J., **Haas, S. S.**, Passiatore, R., Fazio, L., Caforio, G., Falkai, P., Blasi, G., Bertolino, A., & Koutsouleris, N. “Multivariate classification of schizophrenia and its familial risk based on load-dependent attentional control brain functional connectivity.” *Neuropsychopharmacology*.

2019 Kambeitz-Ilankovic, L., Betz, L. T., Dominke, C., **Haas, S. S.**, Subramaniam, K., Fisher, M., Vinogradov, S., Koutsouleris, N., & Kambeitz, J. “Multi-outcome meta-analysis (MOMA) of cognitive remediation in schizophrenia: revisiting the relevance of human coaching and elucidating interplay between multiple outcomes.” *Neuroscience & Biobehavioral Reviews*.

2018 Kambeitz-Ilankovic, L.*, **Haas, S. S.***, Meisenzahl, E., Dwyer, D. B., Weiske, J., Peters, H., Möller, H.J., Falkai, P., & Koutsouleris, N. “Neurocognitive and neuroanatomical maturation in the clinical high-risk

states for psychosis: a pattern recognition study." *NeuroImage: Clinical*. *

Under Review

2023 **Haas, S. S.**, Ge, R., Agartz, I., Amminger, G. P., Andreassen, O. A., Bachman, … Frangou, S. "Normative modeling of brain morphometry in Clinical High-Risk for Psychosis".

2023 Ge, R., Yu, Y., Qi, Y. X., Fan, Y. V., Chen, S., Gao, C., **Haas, S. S.**, … Frangou, S. "Normative Modeling of Brain Morphometry Across the Lifespan using CentileBrain: Algorithm Benchmarking and Model Optimization".

2023 Walter, N., Wenzel, J., **Haas, S. S.**, Squarcina, L., Bonivento, C., Ruef, A., … & Kambeitz-Ilankovic, L. "A multivariate cognitive approach to predict social functioning in recent onset psychosis in response to computerized cognitive training".

2023 Wenzel, J., Badde, L., **Haas, S. S.**, Bonivento, C., Dwyer, D., Antonucci, L. A., … & Kambeitz-Ilankovic, L. "Transdiagnostic Subgroups of Cognitive Impairment in Early Affective and Psychotic Illness".

2023 Buciuman, M., Oeztuerk, O. F., Popovic, D., Ruef, A., Bieler, N., Dwyer, D., Kambeitz-Ilankovic, L.,**Haas, S. S.**, … & Koutsouleris, N. "Structural and functional brain patterns predict formal thought disorder's severity and its persistence in recent-onset psychosis: Results from the PRONIA Study".

2023 Hinkley, L., **Haas, S. S.**, Cheung, S. W., Nagarajan, S. S., & Subramaniam, K."Reduced Neural Connectivity in the Caudate Anterior Head Predicts Hallucination Severity in Schizophrenia".

Conference Proceedings (peer-reviewed)

2023 **Haas, S. S.**, Bilgrami, Z. R., Cotter, M., Herrera, S. N., McGowan, A., Sarac, C., Shaik, R. B., Shuster, S., Srivastava, A., & Corcoran, C. M. "Functional connectivity-based signatures of perceptual disturbances in individual at clinical high-risk for psychosis: a multivariate pattern analysis." in *Schizophrenia International Research Society, 2023*, Toronto, Ontario, Canada.

2023 **Haas, S. S.**, Ge, R., Hernaus, D., Jalbrzikowski, M., Kahn, R. S., Corcoran, C. M., Frangou, S., & the ENIGMA Clinical High Risk for Psychosis Working Group "Normative modeling of brain morphometry in individuals at clinical high-risk for psychosis from the ENIGMA CHR Working Group." in *Society of Biological Psychiatry, 2023*, San Diego, CA, USA.

2022 **Haas, S. S.**, Ge, R., Kahn, R. S., Jalbrzikowski, M., Hernaus, D., Corcoran, C. M., Frangou, S., & the ENIGMA Clinical High Risk for Psychosis Working Group "Normative modeling of brain morphometry in individuals at clinical high-risk for psychosis from the ENIGMA CHR Working Group." in *American College of Neuropsychopharmacology 2022*, Phoenix, AZ, USA.

2022 **Haas, S. S.**, Ge, R., Modabbernia, A., Reichenberg, A., Whalley, H. C., Kahn, R. S., Frangou, S. "Multimodal neuroimaging characteristics of cognitive subgroups of early psychosis." in *Organization for Human Brain Mapping 2022*, Glasgow, Scotland.

2022 **Haas, S. S.**, Ge, R., Sanford, N., Modabbernia, A., Reichenberg, A., Whalley, H. C., ... & Frangou, S. "P582. Local and Global Brain Ageing in Cognitive Subgroups of Early Psychosis." in *Society of Biological Psychiatry 2022*, New Orelans, LA, USA.

2022 Shaik, R., Bel-Bahar, T., Herrera, S., Bilgrami, Z. R., Sarac, C., Srivastava, A., **Haas, S. S.**, ... & Parvaz, M. A. "P519. Increased Frontal and Parietal Resting-State Lower Alpha Power as a Potential Marker of a Compensatory Mechanism Against Negative Symptoms in Clinical High-Risk Individuals for Psychosis." in *Society of Biological Psychiatry 2022*, New Orelans, LA, USA.

2022 Srivastava, A., Abrami, A., Shaik, R., **Haas, S. S.**, Herrera, S. N., ... & Corcoran, C. M. "P473. Estimating Self-Disturbance in Psychosis and Its Risk States Using Natural Language Processing Analysis of Open-Ended Interviews" in *Society of Biological Psychiatry 2022*, New Orelans, LA, USA.

2022 **Haas, S. S.**, Srivastava, A., Antonucci, L. A., Herrera, S. N., Bilgrami, Z. R., Sarac, C., Shaik, R. B., Cecchi, G. A., Mizrahi, R., Nelson, B., & Corcoran, C. M. "T16. Improved Individualized Identification of

*Shared first authors

Schizophrenia and Clinical High Risk for Psychosis when Combining Cognition with Natural Language Processing" in *Schizophrenia International Research Society 2022*, Florence, Italy.

2022 **Haas, S. S.**, Ge, R., Sanford, N., Modabbernia, A., Reichenberg, A., Whalley, H. C., Kahn, R. S., & Frangou, S. "F92. Cognitive Subgroups of Early Psychosis Differ in Global and Local Brain Aging" in *Schizophrenia International Research Society 2022*, Florence, Italy.

2022 Wenzel, J., Badde, L., **Haas, S. S.**, Dwyer, D. B., Bonivento, C., Brambilla, P., Koutsouleris, N., Kambeitz, J., & Kambeitz-Ilankovic, L. "F65. Clustering is Less Likely to Capture Distinct Cognitive Subgroups Across Psychotic and Affective Illnesses in the Early Stage: New Insights from the PRONIA Study" in *Schizophrenia International Research Society 2022*, Florence, Italy.

2022 Baldwin, H., Radua, J., Antoniades, M., **Haas, S. S.**, Frangou, S., Jalbrzikowski, M., ... & Fusar-Poli, P. "S110. Neuroanatomical Heterogeneity in Individuals at Clinical High-Risk for Psychosis" in *Schizophrenia International Research Society 2022*, Florence, Italy.

2021 Myoraku, A., **Haas, S. S.**, Watson, K., Robakis, T., Frangou, S., Abbasi, F., ... & Rasgon, N. "P22. Brain Imaging Correlates of Metabolic Function in Adults Who are Overweight/Obese." in *American College of Neuropsychopharmacology 2021*, San Juan, Puerto Rico.

2021 Sanford, N., Antoniades, M., **Haas, S. S.**, & Frangou, S. "S247. Sociobiological Factors Associated With Higher Predicted Brain-Age in Young Healthy Adults: Findings From the Human Connectome Project." in *Society of Biological Psychiatry 2021*, Virtual.

2021 Shaik, R., Bilgrami, Z. R., Sarac, C., Herrera, S., **Haas, S. S.**, Srivastava, A., … & Corcoran, C. M. "Auditory Mismatch Negativity in Clinical High Risk for Psychosis and Schizophrenia, and Association With Symptoms and Cognition." in *Society of Biological Psychiatry 2021*, Virtual.

2020 **Haas, S. S.**, Doucet, G. E., Antoniades, M., Modabbernia, A., Lee, W. H., Kahn, R. S., ... & Frangou "Neuroimaging Defined Psychosis Spectrum Phenotypes in the General Population." in *Society of Biological Psychiatry 2020*, Virtual.

2020 **Haas, S. S.**, Bilgrami, Z. R., Sarac, C., Herrera, S. N., Shaik, R., Frangou, S., & Corcoran, C. M. "Neural Correlates of Thought Disorder and Attenuated Hallucinatory Symptoms in Individuals at Clinical High Risk for Psychosis." in *Society of Biological Psychiatry 2020*, Virtual.

2020 Antoniades, M., Modabbernia, A., Doucet, G. E., **Haas, S. S.**, & Frangou, S. "Cognitive Ability and MRI-Predicted Age Gap in Healthy Individuals From a Large Epidemiological Sample." in *Society of Biological Psychiatry 2020*, Virtual.

2020 Shaik, R., Parvaz, M. A., Bilgrami, Z. R., Sarac, C., Herrera, S., Garg, S., **Haas, S. S.**, ... & Corcoran, C. M. "Patterns of Mismatch Negativity Deficits in Individuals at Clinical High Risk for Psychosis and Association with Symptoms." in *Society of Biological Psychiatry 2020*, Virtual.

2020 Antonucci, A., Penzel, N., Pergola, G., **Haas, S. S.**, Kambeitz-Ilankovic, L., Blasi, G., ... & Koutsouleris, N. "Functional connectivity during increasing attentional control request identifies unique and shared brain signatures of schizophrenia and its familial risk." in *Schizophrenia International Research Society 2020*, Virtual.

2020 Öztürk, Ö. F., Pigoni, A., Wenzel, J., **Haas, S. S.**, Popovic, D., Ruef, A., ... & Koutsouleris, N. "O6. 4. Association Between Clusters of Formal Thought Disorder Severity and Neurocognitve and Functional Outcome Indices in the Early Stages of Psychosis–Results from the PRONIA Cohort." in *Schizophrenia International Research Society 2020*, Virtual.

2020 Wenzel, J., Dwyer, D. B., Ruef, A., Öztürk, **Haas, S. S.**, Kambeitz, J., ... & Kambeitz-Ilankovic, L. "S44. Neurobiological Fingerprints of Cognitive Subtypes in Recent Onset Psychosis Patients." in *Schizophrenia International Research Society 2020*, Virtual.

2020 Hauke, D., Schmidt, A., Studerus, E., Andreou, C., Riecher-Rössler, A., **Haas, S. S.**, ... & Borgwardt, S. "O6.6. Multimodal Prognosis of Negative Symptom Severity in Individuals with Increased Risk of Developing Psychosis." in *Schizophrenia International Research Society 2020*, Virtual.

2019 Antonucci, L. A., Penzel, N., Pergola, G., Kambeitz-Ilankovic, L., **Haas, S. S.**, Kambeitz, J., ... & Koutsouleris, N. "Using ROI-based functional connectivity during attention to classify schizophrenia and

its familial risk." in *Organization for Human Brain Mapping 2019*, Rome, Italy.

2019 Weiske, J., **Haas, S. S.**, Ruef, A., Betz, L., Pergola, G., Koutsouleris, N., & Antonucci, L. A. "M081. Comparison of two brain parcellations in functional connectivity-based classification of psychosis." in *Organization for Human Brain Mapping 2019*, Rome, Italy.

2019 Penzel, N., **Haas, S. S.**, Sanfelici, R., Cubillos-Pinilla, L., Kambeitz-Ilankovic, L., Falkai, P., ... & Kambeitz, J. "M123. Structural and functional brain alterations across the psychosis spectrum: a meta-analysis." in *Organization for Human Brain Mapping 2019*, Rome, Italy.

2019 Kambeitz-Ilankovic, L., Vinogradov, S., Wenzel, J., Fisher, M., **Haas, S. S.**, Koutsouleris, N., & Subramaniam, K. "Using multivariate analysis to predict functional outcome in response to cognitive training interventions." in *Organization for Human Brain Mapping 2019*, Rome, Italy.

2019 Kambeitz-Ilankovic, L., Koutsouleris, N., Wenzel, J., **Haas, S. S.**, Fisher, M., Vinogradov, S., & Subramaniam, K. "Individualized Prediction of Functional Outcomes in Schizophrenia Patients in Response to Neuro-Cognitive Intervention: a Machine Learning Analysis." in *Schizophrenia International Research Society 2019*, Orlando, Florida.

2018 **Haas, S. S.**, Koutsouleris, N., Ruef, A., Biagianti, B., Kambeitz, J., Dwyer, D., Khanyaree, I., Sanfelici, R., & Kambeitz-Ilankovic, L. "F70. Computerized Social Cognitive Training (SCT) Improves Cognition And Restores Functional Connectivity In Recent Onset Psychosis: An Interim Report." in *Schizophrenia International Research Society 2018*, Florence, Italy.

2018 Weiske, J., Ruef, A., **Haas, S. S.**, Bonivento, C., Koutsouleris, N., Kambeitz-Ilankovic, L. "T137. Classification Of Recent-onset Psychosis Based On Resting-state Functional Connectivity And The Relationship To Neurocognitive Impairment." in *Schizophrenia International Research Society 2018*, Florence, Italy.

2017 Kambeitz-Ilankovic, L., **Haas, S. S.**, Meisenzahl, E., Möller, H.J., Falkai, P., & Koutsouleris, N. "1305. Altered Neurocognitive Aging in Adults with Clinical High Risk for Psychosis." in *Organization for Human Brain Mapping 2017*, Vancouver, Canada.

2016 **Haas, S. S.**, Cabral, C., Urquijo, M., Von Saldern, S., Kambeitz, J., Koutsouleris, N., & Kambeitz-Ilankovic, L. "M154. Separation of recent-onset psychosis patients from healthy controls based on resting-state functional connectivity pattern classification." in *Schizophrenia International Research Society 2016*, Florence, Italy.

Book Chapters

2022 Antoniades, M., **Haas, S. S.**, Moukaled, S., New, F., Pescatore, S., Frangou, S.: Adolescent Psychosis: Clinical and Scientific Perspectives – "Chapter 9 – Functional brain imaging in early-onset psychosis".

Theses

2019 Ph.D. — Elucidating the efficacy and response to social cognitive training in recent onset psychosis.

2015 M.S. — Separation of recent-onset psychosis patients from healthy controls based on resting-state functional connectivity pattern classification.

TEACHING

Courses

2022-Fa Lecturer for Course WP4 Neuro-Cognitive Psychology - Introduction to Multivariate and Neuroimaging Methods — under Dr. L. Kambeitz-Ilankovic

2018-Fa TA for 3rd Machine Learning Autumn School — under Dr. Nikolaos Koutsouleris

2017-Fa TA for Course M(B) Neuro-Cognitive Psychology - Neuroimaging in Psychosis and At Risk Mental State — under Dr. L. Kambeitz-Ilankovic

2016-Fa Lecturer for Course M(B) Neuro-Cognitive Psychology - Neuroimaging in Psychosis and At Risk Mental State — under Dr. L. Kambeitz-Ilankovic

2016-Fa TA for Course M(B) Neuro-Cognitive Psychology - Neuroimaging in Psychosis and At Risk Mental State — under Dr. L. Kambeitz-Ilankovic

2016-Su TA for 2nd Machine Learning Summer School — under Dr. Nikolaos Koutsouleris

2015-Fa Lecturer for Course M(B) Neuro-Cognitive Psychology - Neuroimaging in Psychosis and At Risk Mental State — under Dr. L. Kambeitz-Ilankovic

2015-Fa TA for Course M(B) Neuro-Cognitive Psychology - Neuroimaging in Psychosis and At Risk Mental State — under Dr. L. Kambeitz-Ilankovic

2015-Su TA for 1st Machine Learning Summer School — under Dr. Nikolaos Koutsouleris

Guest Lectures (GL), Panels (P) & Invited Talks (IT)

2023-IT "Functional connectivity-based signatures of perceptual disturbances in individual at clinical high-risk for psychosis: a multivariate pattern analysis." Oral Presentation for 14th International Conference on Early Intervention in Mental Health. July 2023.

2023-P "Local and Global Brain Aging in Cognitive Subgroups of Early Psychosis." Symposium on *Cognition revisited: understanding heterogeneity in early psychosis* at the 14th International Conference on Early Intervention in Mental Health. July 2023.

2023-P "Utility of machine learning to link multimodal neurosignatures with behavior across psychosis spectrum disorders and its application to general population samples." Symposium for the British Association for Psychopharmacology Conference. June 2023.

2023-IT "A Joint Project with the ENIGMA Lifespan and Clinical High Risk for Psychosis Working Groups." ENIGMA All-Hands Meeting at the Society of Biological Psychiatry Conference. April 2023.

2023-IT "Machine learning applications for improved precision medicine in early-stage psychosis." Emory University, Department of Psychology, Atlanta, Georgia. April 2023.

2023-IT "Machine learning applications to identify neurosignatures of psychosis spectrum disorders." University of Cologne, Faculty of Medicine and University Hospital of Cologne, Cologne, Germany. March 2023.

2022-IT "Linking abnormal neural hierarchy in processing verbal information with thought disorder across the psychosis spectrum." Columbia University, Department of Psychiatry. July 2022.

Supervision

2023 Francesca Serio — Research Scholar Co-mentoring with Dr. Cheryl Corcoran (project TBD).

2022 Matthew Cotter, Alessia McGowan, Sophie Shuster — "Natural language processing predicts psychosis"

2022 Ananatha Ramakrishnan — "Clustering to identify environmental predictors of substance-use risk"

2021 Holland Brown — "Decoding visual stimuli in Schizophrenia"

2019 Cansu Sarac — "Processing speed and brain volume in individuals at clinical high-risk for psychosis with comorbid eating disorders: A brief report"

2019 Adrian Rangnick, *B.A. Psychology*, Bachelor's Thesis — "Cognitive maturation across early psychosis: a machine learning approach."

2018 Ifrah Khanyaree, *M.Sc. Neuro-Cognitive Psychology*, Master's Thesis — "Using resting state functional connectivity to predict functional outcome in individuals at clinical high risk for psychosis."

GRANTS & AWARDS

Awards & Honors

2023 Travel Award, for the Society of Biological Psychiatry 2023 Meeting

2022 Early Career Award, Schizophrenia International Research Society
2022 Top 30 Poster Finalist, Schizophrenia International Research Society
2019 Ph.D. with honorable distinction from the examination board
2017 Travel Award, GlaxoSmithKline to attend the OHBM conference in Vancouver, Canada
2016 Top Overall Poster Award, Schizophrenia International Research Society
2015 Member of the Elitenetwork Bavaria

Grants & Fellowships

2022 T32 Ruth L. Kirschstein Institutional National Research Service Award, $59,592

SERVICE

Service to the field

2023-26 Member of the Diversity Committee, for the Schizophrenia International Research Society
2023-26 Member of the Finance Committee, for the Schizophrenia International Research Society
2023 Mentor, Early Career Awardee at the Schizophrenia International Research Society

Academic Journal Peer Review

BMC Psychology
BMJ Open
European Psychiatry
Human Brain Mapping
NeuroImage: Clinical
Schizophrenia Bulletin
The British Journal of Psychiatry

SKILLS

Programming: Matlab, R, Python
Neuroimaging Modalities: sMRI, fMRI, resting-state fMRI
Specialized Tools: Git, LaTeX, Freesurfer, SPM, DPABI, MRIcron, BrainNet Viewer, NeuroMiner
Languages: English, German, Tagalog