

Amelie HAUGG

PLACE OF BIRTH: Kempten (Allgäu), Germany
E-MAIL: amelie.haugg@uzh.ch

WORK AND RESEARCH EXPERIENCE

- | | |
|----------------------|---|
| 11/2020
- now | Postdoctoral Researcher
Child and Adolescent Psychiatry Zurich, Zurich, Switzerland
real-time fMRI neurofeedback; dyslexia; reading (acquisition); structural covariance;
developmental neuroimaging; |
| 11/2023
- 03/2024 | Visiting Postdoctoral Researcher
Harvard Medical School, Harvard University, Boston, United States
McLean Hospital, Boston, United States
Northeastern University, Boston, United States
reward processing in anhedonia in adolescents and adults
joined project with Prof. Diego Pizzagalli and Prof. Susan Whitfield-Gabrieli |
| 10/2019
- 10/2020 | Research Fellow
Faculty of Psychology, University of Vienna, Vienna, Austria
closed-loop brain dynamics; control theory; machine learning |
| 10/2016
- 10/2020 | Doctoral Student
Psychiatric University Hospital, Zurich, Switzerland
real-time fMRI neurofeedback; nicotine use disorder; meta- and mega-analyses;
nicotine cue-reactivity; wanting and liking in addiction |
| 11/2015
- 08/2016 | Graduate Researcher
Brain and Mind Institute, University of Western Ontario,
London (Ontario), Canada
Disorders of consciousness; naturalistic stimulation; functional connectivity; anesthesia;
fMRI; resting state |
| 03/2015
- 09/2015 | Research Intern
Faculty for Psychology and Neuroscience
Maastricht University, The Netherlands
Multimodal paradigms; ultra high-field MRI; brain-computer-interfaces |
| 10/2013
- 08/2014 | Research Assistant
Max Planck Institute for Biological Cybernetics, Tuebingen, Germany
Face recognition; emotion processing |
| 04/2013
- 09/2013 | Research Intern
University of Tuebingen, Tuebingen, Germany
Event-related potentials; scene recognition; spatial cognition; EEG |

EDUCATION

- 10/2016 | **PhD in Neuroscience**
- 10/2020 | Zurich Neuroscience Center, University of Zurich, Zurich, Switzerland
Committee: Frank Scharnowski, Dominik Bach, Klaas Enno Stephan
- 09/2014 | **Research MSc in Cognitive and Clinical Neuroscience**
- 08/2016 | Maastricht University, Maastricht, The Netherlands
Supervisors: Lorina Naci, Bettina Sorger
- 10/2011 | **BSc in Cognitive Science**
- 08/2014 | Eberhard Karls Universitaet, Tuebingen, Germany
Supervisors: Hanspeter Mallot, Martin Butz

AWARDS AND GRANTS

- 2023 Postdoc Grant of the Fondation Frutiger (238,315 CHF)
2022 NCCR Travel Grant (1200 CHF)
2021 Fonds für wissenschaftliche Zwecke im Interesse der Heilung von psychischen Krankheiten (19,990 CHF)
2019-20 UZH Candoc Forschungskredit (66,850 CHF)
2019 UZH GRC Travel Grant (2000 CHF)
2019 UZH GRC Grant for R Programming Workshop (10,000 CHF, co-applicant)
2018 UZH GRC Grant for BrainHack Zurich (8,900 CHF, co-applicant)
2018 EBPS Travel Award (1,000\$)
2018 OHBM Merit Abstract Award (2,000\$)
2018 ZNZ Travel Award (1,000 CHF)
2017 rtFIN Travel Award (¥ 143,000)
2016 FPN Congress Grant (500€)
2015 FPN Research Project Grant (500€)

COMPUTER SKILLS

- Programming: Matlab, Python, Java, C and Co, Scheme/Racket
MRI Analysis: SPM, FSL, BrainVoyager, CONN
Statistical Analysis: R, SPSS
Design: Affinity Designer, Illustrator, Photoshop, Shotcut, InDesign
Other: Latex, Markdown, HTML

PRACTICAL EXPERIENCE

- Brain: (real-time) fMRI (3T and 7T), MRI, EEG, TMS, tDCS/tACS
Body: SCR, ECG, EMG, eye-tracking, respiration

CERTIFICATES

- MRI Qualified User Certificate
Good Clinical Practice Certificate, Modules 1 and 2

SERVICE AND VOLUNTEERING

- 2023-now **Co-Chair**, ENIGMA Neurofeedback
- 2023-now **Program Committee Member**, Real-time functional imaging and neurofeedback meeting 2024
- 2020-now **Steering Committee Member**, NCCR Evolving Language
- 2020-now **Student and Postdoc Representative**, NCCR Evolving Language
- 2018-20 **Communication manager**, Organization for Human Brain Mapping (Student & Postdoc SIG)
- 2019-20 **Committee member**, Diversity and Inclusivity Committee of the Organization for Human Brain Mapping
- 2020 **Organizer**, OHBM Trainees' Career Development and Mental Health Online Workshop Series
- 2019 **Organizer**, 5-Day Advanced Statistics in R Workshop
- 2017-18 **Organizer**, (1st, 2nd, 3rd) Brainhack Zurich, Zurich, Switzerland
- 2016-20 **Organizer**, Neuroimaging Peer Mentoring Group (organized for students at the Psychiatric University Hospital Zurich)
- 2016-19 **Organizer**, Brain Competence Peer Mentoring Group (together with ReLAB at ETH Zurich)
- 2014-15 **CyberMentor**, STEM role model and mentor for girls interested in science, www.cybermentor.de, Germany
- 2013-14 **Student Representative**, Study commission for Cognitive Science, University of Tuebingen, Germany
- 2012-14 **Student Representative**, Student association for Computer Science, University of Tuebingen, Germany

OUTREACH AND SCIENCE COMMUNICATION

- 2023-now **Science Communicator**, Savoir Public
- 2022-now **Science Communicator**, Forscher*innen teilen Wissen - Life Science Zurich (SciComm for school classes)
- 2022-now **Science Communicator**, Brainfair Zurich (SciComm for school classes)
- 2022 **Science Communicator**, AdaBD Lehrpersonenweiterbildung (SciComm for teachers)
- 2022 **Science Communicator**, I'm a Scientist Germany (SciComm for school classes)
- 2021 **Scientific support**, Brain-Computer-Interface Workshops at Scientifica Zurich
- 2019 **Organizer**, Neurofeedback Workshops at Scientifica Zurich
- 2019 **Science Communicator**, Real Scientists Germany (@realsci_DE)

JOURNAL EDITING

- Frontiers in Neuroscience (Special Topic Editor)
- Frontiers in Psychology (Associate Editor)

JOURNAL REVIEWING

Addiction Biology
Aperture
Biological Psychology
Clinical EEG & Neuroscience
Consciousness and Cognition
Current Psychopharmacology
Frontiers in Human Neuroscience
Frontiers in Neuroscience
Frontiers in Psychiatry
Frontiers in Psychology
IEEE Transactions on Neural Systems & Rehabilitation Engineering
Journal of Integrative Neuroscience
NeuroImage
NeuroImage: Clinical
Neuropsychologia
Neuroscience Letters
Philosophical Transactions
Progress in Neuropsychopharmacology & Biological Psychiatry
Psychophysiology
Scientific Reports

TEACHING EXPERIENCE

- 2022-now: Bioscientific Methods for Researching Psychiatric Disorders, *University of Zurich (Switzerland)*, Lecturer, **Medicine**
- 2021-now: Experimental Human Studies in Physiology and Pharmacology, *University of Zurich (Switzerland)*, Lecturer, **Biomedicine**
- 2023: Guest lecture in the Brain, Language, Experiments lecture series, *University of Zurich*, Guest Lecturer, **Linguistics**
- 2022: Guest lecture in the Translational Psychiatry seminar, *University of Zurich (Switzerland)*, Guest Lecturer, **Psychology**
- 2017-20: Neuropsychological Methods: MRI, *University of Zurich (Switzerland)*, Lecturer, **Psychology**
- 2017-19: Bioscientific Methods for Researching Psychiatric Disorders, *University of Zurich (Switzerland)*, Teaching Assistant, **Medicine**
- 2019: Interdisciplinary Research Methods in Computational Biology, *University of Zurich (Switzerland)*, Teaching Assistant, **Biology**
- 2018: Disorders of Consciousness, *Interdisciplinary College, Günne (Germany)*, [course evaluation: 9.54/10.00, 2nd highest rating of the spring school], *Speaker*, **Interdisciplinary**
- 2017: Neurobiology, *University of Zurich (Switzerland)*, Lecturer, **Biology**
- 2017: Regeneration and Plasticity of the Nervous System, *Swiss Federal Institute of Technology (ETH) Zurich (Switzerland)*, Lecturer, **Biology**
- 2013-14: Introduction to Logic, *University of Tübingen (Germany)*, Teaching Assistant, **Philosophy**

PHD STUDENT CO-SUPERVISION

- 2020-now: **Nada Frei**, PhD in Neuroscience, *ETH Zurich*
2018-23: **Apurva Watve**, PhD in Psychology, *University of Zurich*

MASTER THESIS SUPERVISION

- 2022-23: **Liora Strickler**, MSc Biomedicine, *University of Zurich*
2022-23: **Vinzenz Kaspar Schmid**, MSc Biomedicine, *University of Zurich*
2022-23: **Anna-Marie Conrad**, MSc Psychology, *University of Zurich*
2022-23: **Chayenne Garcia**, MSc Biomedicine, *University of Zurich*
2021-22: **Alexander Zeller**, MSc Biomedicine, *University of Zurich*
2021-22: **Sara Steinegger**, MSc Biology, *University of Zurich*
2021-22: **Felizia Stutz**, MSc Biomedicine, *University of Zurich*
2020-21: **Milena Menghini**, MSc Biomedicine, *University of Zurich*
2018-19: **Mirjam Habegger**, MSc Psychology, *University of Zurich*
2018-19: **Anna Speckert**, MSc Cognitive Neuroscience, *Université de Fribourg*
2017-18: **Cindy Lor**, MSc Health Science and Technology, *ETH Zurich*

INTERN SUPERVISION

- 2022: **Elena Hui**, MSc Interdisciplinary Brain Sciences, *University of Zurich and ETH Zurich*
2022: **Sara Herbst**, BSc Biomedicine, *University of Zurich*
2022: **Jan Hohenheim**, BSc Biomedicine, *University of Zurich*
2022: **Sina Gubler**, BSc Biomedicine, *University of Zurich*
2021: **Anaïs Bouchat**, MSc Health Science and Technology, *ETH Zurich*
2021: **Liora Strickler**, BSc Biomedicine, *University of Zurich*
2021: **Stella Lueger**, BSc Biomedicine, *University of Zurich*
2019: **Sarah Meier**, MSc Health Science and Technology, *ETH Zurich*
2018: **Ellen van Maren**, MSc Medical Technology, *ETH Zurich*
2017: **Cindy Lor**, MSc Health Science and Technology, *ETH Zurich*

LANGUAGES

- GERMAN: **Mothertongue**
ENGLISH: **Fluent**
SPANISH: **Intermediate Knowledge (B1)**
DUTCH: **Basic Knowledge (A2)**
LATIN: **Advanced Latinum**

THESES

- PHD: Advances in Real-Time fMRI Neurofeedback - From Big Data to Individualized Clinical Applications
committee: Prof. Frank Scharnowski, Prof. Dominik Bach, Prof. Klaas Enno Stephan
- MASTER: The functional connectivity of conscious information processing
supervised by Prof. Lorina Naci and Prof. Bettina Sorger
- BACHELOR: Reaction times in view-specific spatial recall
supervised by Prof. Hanspeter Mallot and Prof. Martin Butz

JOURNAL ARTICLES, (H-INDEX ON GOOGLE SCHOLAR: 9)

* denotes equal authorship

- [19] Sangchooli, A., Zare-Bidoky, M., Jouzdani, A., Schacht, J., Bjork, J., Claus, E., Prisciandaro, J., Wilson, S., Wüstenberg, T., Potvin, S., Ahmadi, P., Bach, P., Baldacchino, A., Beck, A., Brady, K., Brewer, J., Childress, A., Courtney, K., Ebrahimi, M., Filbey, F., Garavan, H., Ghahremani, D., Goldstein, R., Goudriaan, A., Grodin, E., Hanlon, C., **Haugg, A.**, Heilig, M., Heinz, M., Holczer, A., Van Holst, R., Joseph, J., Juliano, A., Kiefer, F., Kaufman, M., Khojasteh Zonooni, A., Kuplicki, R., Leyton, M., London, E., Mackey, S., McClernon, J., Mellick, W., Morley, K., Noori, H., Oghabian, M., Oliver, J., Owens, M., Paulus, M., Perini, I., Rafei, P., Ray, L., Sinha, R., Smolka, M. N., Soleimani, G., Spanagel, R., Steele, V., Tapert, S. F., Vollstäedt-Klein, S., Wetherill, R. R., Witkiewitz, K., Yuan, K., Zhang, X., Verdejo-Garcia, A., Potenza, M., Janes, A. C., Kober, H., Zilverstand, A., Ekhtiari, H., Twenty Five Years of Cue-Reactivity fMRI in Addictions: Current Status and Potential for Biomarker Development *In Press, JAMA Psychiatry*
- [18] Watve, A., **Haugg, A.**, Langer, M., Willinger, D., Roman, Z., Stampfli, P., Kleim, B., Bruhl, A., Scharnowski, F., & Sladky, R., (2023). Facing emotions: A real-time fMRI-based neurofeedback using dynamic emotional faces to modulate amygdala activity, *Frontiers in Neuroscience*, 17, 1286665
- [17] Coray, R., Zimmermann, J., **Haugg, A.**, Baumgartner, M. R., Steuer, A. E., Seifritz, E., Stock, A., Beste C., Cole, D. M., & Quednow, B. B. (2023). Investigating the role of Serotonin in declarative memory using a human Serotonin lesion model *Human Brain Mapping*, 44(15), 5079-5094
- [16] **Haugg, A.**, Frei, N., Menghini, M., Stutz, F., Steinegger, S., Röthlisberger, M., & Brem, S. (2023). Self-regulation of the visual word form area with real-time fMRI neurofeedback, *Scientific Reports*, 13, 9195
- [15] Lor, C., Karner, A., Steyrl, D., Sladky, R., Scharnowski, F & **Haugg, A.** (2023). Altered resting-state after behavioral tasks in clinical populations, *NeuroImage: Clinical*, 37, 103345
- [14] Lor, C., **Haugg, A.**, Zhang, M., Schneider, L., Herdener, M., Quednow, B., Golestani, N., & Scharnowski, F. (2023). Thalamic volume and functional connectivity are associated with distinct characteristics of tobacco use disorder, *Addiction Biology*, 28(1), e13261
- [13] **Haugg, A.*** & Manoliu, A.*, Sladky, R., Hulka, L., Kirschner, M., Brühl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (2022). Disentangling craving-and valence-

driven brain responses to smoking cues in individuals with nicotine use disorder, *Addiction Biology*, 27(1), e13083

[12] **Haugg, A.**, Renz, F. M., Nicholson, A. A., Lor, C., Götzendorfer, S. J., Sladky, R., Skouras, S., Craddock, C., McDonald, A., Hellrung, L., Kirschner, M., Herdener, M., Koush, Y., Papoutsi, M., Keynan, J., Hendler, T., Kadosh, K., Zich, C., Kohl, S. H., Hallschmid, M., MacInnes, J. J., Adcock, R. A., Dickerson, K., Chen, N.-K., Young, K., Bodurka, J., Marxen, M., Shuxia, Y., Becker, B., Auer, T., Schweizer, R., Pamplona, G., Lanius, R. A., Emmert, K., Haller, S., Van de Ville, D., Kim, D.-Y., Lee, J.-H., Marins, T., Fukuda, M., Sorger, B., Kamp, T., Liew, S.-L., Spetter, M., Veit, R., Weiskopf, N., Scharnowski, F.* & Steyrl, D.* (2021). Predictors of real-time fMRI neurofeedback performance and improvement – a machine learning mega-analysis, *NeuroImage*, 237, 118207

[11] Wade-Bohleber, L. M., **Haugg, A.**, Huber, S., Ernst, J., Recher, D. A., Seifritz, E., Boeker, H. & Northoff, G. (2021). Perceived control over aversive stimuli modulates activation in the ventromedial prefrontal cortex and the reward system: an fMRI study with healthy adults, *Human Brain Mapping*, 42(13), 4327-4335

[10] Klink, K., Jaun, U., Federspiel, A., Wunderlin, M., Teunissen, C., Kiefer, K., Wiest, R., Scharnowski, F., Sladky, R., **Haugg, A.**, Hellrung, L. & Peter, J. (2021). Targeting hippocampal hyperactivity with real-time fMRI neurofeedback: Protocol of a single-blind randomized controlled trial in individuals with and without memory problems, *BMC Psychiatry*, 21 (1), 1-9

[9] Tzovara, A., Amarreh, I., Borghesani, V., Chakravarty, M., DuPre, E., Grefkes, C., **Haugg, A.**, Jollans, L., Keiholz, S., Lee, H. W., Newman, S. D., Olsen, R. K., Ratnanather, J. T., Rippon, G., Uddin, L. Q., Bringas Vega, M. L., Veldsman, M., Whitaker, K., White, T. & Badhwar, A. (2021). Embracing diversity and inclusion in academia: Insights from the Organization for Human Brain Mapping, *NeuroImage*, 229, 117742

[8] Manoliu, A.* & Sladky, R.*, Scherpiet, S., Opialla, S., Jancke, L., Bolsinger, J., **Haugg, A.**, Scharnowski, F., Seifritz, E., Herwig, U. & Bruhl, A. B. (2021). Dopaminergic neuromodulation has no detectable effect on visual-cue induced hemodynamic response function in the visual cortex: a double-blind, placebo-controlled fMRI study, *Journal of Psychopharmacology*, 0269881120972341

[7] **Haugg, A.**, Sladky, R., Skouras, S., Craddock, C., McDonald, A., Kirschner, M., Herdener, M., Koush, Y., Papoutsi, M., Kadosh, K., Zich, C., MacInnes, J., Adcock, A., Dickerson, K., Chen, N.-K., Young, K., Bodurka, J., Shuxia, Y., Becker, B., Auer, T., Schweizer, R., Emmert, K., Haller, S., Van de Ville, D., Blefari, M. L., Kim, D.-Y., Lee, J.-H., Marins, T., Fukuda, M., Sorger, B., Kamp, T., Liew, S.-L., Spetter, M., Veit, R., Weiskopf, N. & Scharnowski, F. (2020). Can pre-training localizer activity predict real-time fMRI neurofeedback learning success? *Human Brain Mapping*, 41 (14), 3839-3854

[6] Manoliu, A.* & **Haugg, A.***, Sladky, R., Hulka, L., Kirschner, M., Brühl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (2020). SmoCuDa: A novel smoking cue database to reliably induce craving and craving-related brain activity in nicotine addiction, *European Addiction Research*, 27 (2), 107-114

[5] Bielschky, N. Z., Ando, A.*, Badhwar, A.*, Caldinelli, C.*, Gao, M.*, **Haugg, A.***, Hernandez, L. M.*, Ito, K.*, Kessler, D.*, Lurie, D.*, Makary, M. M.*, Nikolaidis, A.*, Veldsman, M.*, Allen, C., Bankston, A., Böttnerhorn, K. L., Braukmann, R., Calhoun, V., Cheplygina, V., Costa Boffino, C., Ercan, E., Finc, K., Foo, H., Khatibbi, A., La, C., Mehler, D. M. A., Narayanan, S., Poldrack, R. A.,

Raamana, P. R., Salo, T., Godard-Sebillotte, C., Uddin, L. Q., Valeriani, D., Valk, S. L., Walton, C. C., Ward, P. G. D., Yanes, J. A., Zhou, X. & OHBM Student and Postdoc Special Interest Group. (2020). Effective self-management for early career researchers in natural sciences, *Neuron*, 106 (2), 212-217

[4] Kirschner, M., Sladky, R., **Haugg, A.**, Stämpfli, P., Jehli, E., Hodel, M., Engeli, E., Hösli, S., Baumgartner, M., Quednow, B. B., Sulzer, J., Huys, Q. J. M., Seifritz, E., Scharnowski, F. & Herdener, M. (2018). Self-regulation of the Dopaminergic Reward Circuit in Cocaine Users with Mental Imagery and Neurofeedback, *EBioMedicine*, 37, 489-498

[3] **Haugg, A.**, Cusack, R., Gonzalez-Lara, L. E., Sorger, B., Owen, A. M. & Naci, L. (2018). Do patients thought to lack consciousness retain the capacity for internal as well as external awareness? *Frontiers in Neurology*, 9, 492

[2] Kirschner, M., **Haugg, A.**, Manoliu, A., Huys, Q., Seifritz, E., Tobler, P. N. & Kaiser, S. (2018). Deficits in context-dependent adaptive coding in early psychosis and healthy individuals with schizotypal personality traits, *Brain*, 141, 2806–2819

[1] Naci, L., **Haugg, A.**, Macdonald, A., Anello, M., Houldin, E., Naqshbandi, S., Gonzalez-Lara, L., Arango, M., Harle, C., Cusack, R. & Owen, A. M. (2018). Functional diversity of brain networks supports consciousness and intelligence, *Scientific Reports*, 8, 13259
(In the Top 100 of most accessed Scientific Reports articles of 2018)

ARTICLES UNDER REVIEW

Haugg, A., Frei, N., Lutz, C., Di Pietro, S. V., Karipidis, I. I., & Brem, S. The structural covariance of reading-related brain regions in adults and children with typical reading skills and developmental dyslexia. *In revision*

Haugg, A.*, Mehler, D. M. A.*, & Skouras, S.* Editorial: Translational Applications of Neuroimaging. *Under review*

Watve, A., **Haugg, A.**, Langer, M., Willinger, D., Roman, Z., Stampfli, P., Kleim, B., Bruhl, A., Sladky, R., & Scharnowski, F. Targeting Depression-associated Anhedonia and Anxiety using Adaptive Amygdala Neurofeedback. *Under review*

Lor, C., Steyrl, D., Zhang, M., Zhoe, F., Becker, B., Herdener, M., Quednov, B. B., **Haugg, A.***, & Scharnowski, F.* Decoding resting brain states of smokers from task-based MVPA supports the incentive sensitization theory of addiction. *Under review*

OPEN SCIENCE CONTRIBUTIONS

Toolbox for Representational Similarity Analysis

written in Python, together with Pia Schröder and Julia Brehm
Maastricht University, Maastricht, The Netherlands

Freely available Smoking Cue Database (SmoCuDa)

250 smoking cues, including image ratings and Python scripts for additional image ratings
created with Andrei Manoliu and Frank Scharnowski
University of Zurich, Zurich, Switzerland

INVITED TALKS

February 2024. *Advances in real-time fMRI neurofeedback*, Mindful Brain Meeting, Columbia University, New York City, and Northeastern University, Boston, United States

December 2023. *Investigating and Targeting the Multifaceted Neural Underpinnings of Anhedonia*, Center for Depression, Anxiety and Stress Research, McLean Hospital, Harvard Medical School, Boston, United States

November 2023. *Improving the efficacy of real-time fMRI neurofeedback*, Center for Depression, Anxiety and Stress Research, McLean Hospital, Harvard Medical School, Boston, United States

November 2023. *Improving the efficacy of real-time fMRI neurofeedback*, EPIC Brain Lab, Northeastern University, Boston, United States

March 2023. *Self-regulation of the Visual Word Form Area with real-time fMRI neurofeedback*, Interdisciplinary Research Colloquium for Language and Medicine, Zurich, Switzerland

November 2022. *Real-time fMRI neurofeedback as an intervention in dyslexia*, Swiss Dyslexia Association, Zurich, Switzerland

November 2021. *Self-regulation of the Visual Word Form Area with real-time fMRI neurofeedback*, Brain and Language Lab, University of Vienna, Austria

October 2021. *Advances in real-time fMRI neurofeedback*, Neuroimaging Seminar, King's College London, UK

April 2021. *Embracing Diversity and Inclusivity in an Academic Setting*, Diversity Roundtable of NCCR Evolving Language, Switzerland

CONFERENCE TALKS

January 2024. *Brain response dynamics during novel script reading as compared to familiar script reading*. 19th Annual Alpine Brain Imaging Meeting, Champéry, Switzerland

October 2022. *Meta- and mega-analytic approaches to identify factors influencing neurofeedback success*, 5th Biennial Real-time Functional Imaging and Neurofeedback Conference, New Haven, United States

September 2022. *Closed-loop Neurofeedback Stimulation zur Verminderung von Rauchverlangen*, Annual Meeting of the Schweizerische Gesellschaft für Kinder- und Jugendpsychiatrie und -psychotherapie, Zurich, Switzerland

January 2021. *Adaptive neurofeedback stimulation to support smoking cessation*, 3rd Annual Meeting of the Young Swiss Society for Neuroscience, Switzerland

December 2019. *Meta- and mega-analyses for real-time fMRI neurofeedback*, 4th Biennial Real-time Functional Imaging and Neurofeedback Conference, Maastricht, The Netherlands

October 2019. *Klinische Applikationen von real-time fMRI*, 54th Annual Meeting of the German Society for Neuroradiology, Frankfurt am Main, Germany

September 2019. *Adaptive neurofeedback stimulation to support smoking cessation*, Swiss Addiction Research Day, Basel, Switzerland

June 2019. *Adaptive neurofeedback stimulation to help smoking cessation*, 45th Annual Meeting "Psychologie und Gehirn", Dresden, Germany

October 2018. *Neurofeedback learning - mechanisms, measures, and predictions* Donders Discussions, Nijmegen, The Netherlands

June 2018. *Amygdala cue-reactivity encodes the shift from liking to wanting in nicotine use disorder*. 24th Annual Meeting of the Organization for Human Brain Mapping, Singapore

June 2016. *The functional connectivity of conscious information processing during movie watching*. 20th annual meeting of the Association for the Scientific Study of Consciousness, Buenos Aires, Argentina

CONFERENCE AND SYMPOSIUM ABSTRACTS (1ST AUTHOR ONLY)

2024 (submitted)

[41] **Haugg, A.**, Frei, N., Zeller, A., Garcia, C., Schmid, V. K., Conrad, A.-M., Steinegger, S., Röhlisberger, M., & Brem, S. (June 2024) *Brain response dynamics during novel script reading as compared to familiar script reading*. 30th Annual Meeting of the Organization for Human Brain Mapping, Seoul, South Korea

[40] **Haugg, A.**, Frei, N., Zeller, A., Garcia, C., Schmid, V. K., Conrad, A.-M., Steinegger, S., Röhlisberger, M., & Brem, S. (January 2024) *Brain response dynamics during novel script reading as compared to familiar script reading*. 19th Annual Alpine Brain Imaging Meeting, Champéry, Switzerland

2023

[39] Haugg, A., Frei, N., Lutz, C., Di Pietro, S. V., Karipidis, I. I., & Brem, S. (October 2023). *The structural covariance of reading-related brain regions in adults and children with typical reading skills and developmental dyslexia*. 15th Annual Meeting of the Society for the Neurobiology of Language, Marseille, France

[38] Haugg, A., Frei, N., Menghini, M., Stutz, F., Steinegger, S., Röthlisberger, M., & Brem, S. (September 2023). *The structural covariance of reading-related brain regions in adults and children with typical reading skills and developmental dyslexia*. ZNZ Annual Symposium, Zurich, Switzerland

[37] Haugg, A., Frei, N., Menghini, M., Stutz, F., Steinegger, S., Röthlisberger, M., & Brem, S. (June 2023). *Self-Regulation of the Activity in the Visual Word Form Area with Real-Time fMRI Neurofeedback*. 49th Annual Meeting "Psychologie und Gehirn", Tübingen, Germany

2022

[36] Haugg, A., Frei, N., Menghini, M., Stutz, F., Steinegger, S., Röthlisberger, M., & Brem, S. (November 2022). *Real-time fMRI neurofeedback for controlling activity levels in the Visual Word Form Area*. 6th Annual Burghölzli Psychiatry Meeting, Zurich, Switzerland

[35] Haugg, A. (October 2022). *Meta- and mega-analytic approaches to identify factors influencing neurofeedback success*. 5th Biennial Real-time Functional Imaging and Neurofeedback Conference, New Haven, United States

[34] Haugg, A., Frei, N., Menghini, M., Stutz, F., Steinegger, S., Röthlisberger, M., & Brem, S. (October 2022). *Real-time fMRI neurofeedback for controlling activity levels in the Visual Word Form Area*. 5th Biennial Real-time Functional Imaging and Neurofeedback Conference, New Haven, United States

[33] Haugg, A., Frei, N., Menghini, M., Stutz, F., Steinegger, S., Röthlisberger, M., & Brem, S. (September 2022). *Activity Regulation of the Visual Word Form Area with Real-Time fMRI Neurofeedback*. ZNZ Annual Symposium, Zurich, Switzerland

[32] Haugg, A. (September 2022). *Closed-loop Neurofeedback Stimulation zur Verminderung von Rauchverlangen*. Annual Meeting of the Schweizerische Gesellschaft für Kinder- und Jugendpsychiatrie und -psychotherapie, Zurich, Switzerland

[31] Haugg, A., Frei, N., Menghini, M., Stutz, F., Steinegger, S., Röthlisberger, M., & Brem, S. (June 2022). *Regulating brain activity in the Visual Word Form Area with real-time fMRI neurofeedback*. 28th Annual Meeting of the Organization for Human Brain Mapping, Glasgow, United Kingdom

[30] Haugg, A., Frei, N., Di Pietro, S., Lutz, C., & Brem, S. (June 2022). *Structural covariance of the reading network across different ages – a MRI mega-analysis*. 23rd Annual Meeting of the Swiss Society for Neuroscience, Fribourg, Switzerland

2021

[29] Haugg, A., Frei, N., Menghini, M., Stutz, F., Steinegger, S., & Brem, S. (September 2021). *Self-Regulation of the Visual Word Form Area with Real-Time fMRI Neurofeedback*. ZNZ Annual

Symposium, Zurich, Switzerland

[28] **Haugg, A.**, Lor, C., Habegger, M., Speckert, A., Sladky, R., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (June 2021). *Adaptive neurofeedback stimulation to help smoking cessation*. 27th Annual Meeting of the Organization for Human Brain Mapping, Online conference

[27] **Haugg, A.**, Lor, C., Habegger, M., Speckert, A., Sladky, R., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (January 2021). *Adaptive neurofeedback stimulation to help smoking cessation*. 3rd Annual Meeting of the Young Swiss Society for Neuroscience, Online conference

2020

[26] **Haugg, A.**, Lor, C., Habegger, M., Speckert, A., Sladky, R., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. *Adaptive neurofeedback stimulation to help smoking cessation*. 52nd Congress of the German Psychological Society and 15th Conference of the Austrian Society of Psychology, Vienna, Austria [cancelled due to Covid-19]

[25] **Haugg, A.**, Habegger, M., Speckert, A., Sladky, R., Lor, C., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (June 2020). *Adaptive neurofeedback stimulation to help smoking cessation*. 26th Annual Meeting of the Organization for Human Brain Mapping, Montreal, Canada [online due to Covid19]

[24] **Haugg, A.**, Steyrl, D., Renz, F., Götzendorfer, S., Lor, C., Nicholson, A. A., & Scharnowski, F. (June 2020). *Factors influencing fMRI neurofeedback learning – a machine learning mega-analysis*. 26th Annual Meeting of the Organization for Human Brain Mapping, Montreal, Canada [online due to Covid19]

[23] **Haugg, A.**, Habegger, M., Speckert, A., Sladky, R., Lor, C., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (March 2020). *Adaptive neurofeedback stimulation to help smoking cessation*. OHBMequinoX Twitter conference

[22] **Haugg, A.**, Habegger, M., Speckert, A., Sladky, R., Lor, C., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. *Adaptive neurofeedback stimulation to help smoking cessation*. Symposium on The Neurobiological Basis of Human Social Behavior, Vienna, Austria [cancelled due to Covid-19]

2019

[21] **Haugg, A.**, Steyrl, D., Götzendorfer, S., Lor, C., Nicholson, A. A., Sladky, R., Skouras, S., Craddock, C., McDonald, A., Hellrung, L., Kirschner, M., Herdener, M., Koush, Y., Keynan, J., Hendler, T., Kadosh, K., Zich, C., Papoutsi, M., MacInnes, J. J., Adcock, R. A., Dickerson, K., Chen, N.-K., Young, K., Bodurka, J., Marxen, M., Shuxia, Y., Becker, B., Auer, T., Schweizer, R., Pamplona, G., Lanius, R. A., Emmert, K., Haller, S., Van de Ville, D., Kim, D.-Y., Lee, J.-H., Marins, T., Fukuda, M., Sorger, B., Kamp, T., Liew, S.-L., Spetter, M., Veit, R., Weiskopf, N. & Scharnowski, F. (December 2019). *Factors influencing fMRI neurofeedback learning – a machine learning mega-analysis*. 4th Biennial Real-time Functional Imaging and Neurofeedback Conference, Maastricht, The Netherlands

[20] **Haugg, A.**, Habegger, M., Speckert, A., Sladky, R., Lor, C., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (December 2019). *Adaptive neurofeedback stimulation to help smoking cessation*. 4th Biennial Real-time Functional Imaging and Neurofeedback Conference, Maastricht, The Netherlands

[19] **Haugg, A.**, Habegger, M., Speckert, A., Sladky, R., Lor, C., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (October 2019). *Clinical applications of real-time fMRI neurofeedback*. 54th Annual Meeting of the German Society for Neuroradiology, Frankfurt am Main, Germany

[18] **Haugg, A.**, Habegger, M., Speckert, A., Sladky, R., Lor, C., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (September 2019). *Adaptive neurofeedback stimulation to help smoking cessation*. Swiss Addiction Research Day, Basel, Switzerland

[17] **Haugg, A.**, Habegger, M., Speckert, A., Sladky, R., Lor, C., van Maren, E., Watve, A., Manoliu, A., Herdener, M., Kirschner, M., Quednow, B., Seifritz, E. & Scharnowski, F. (June 2019). *Adaptive neurofeedback stimulation to help smoking cessation*. 45th Annual Meeting "Psychologie und Gehirn", Dresden, Germany

[16] **Haugg, A.**, Manoliu, A., Lor, C., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (June 2019). *Disentangling cue-induced wanting and liking in smokers with parametric functional magnetic resonance imaging*. 25th Annual Meeting of the Organization for Human Brain Mapping, Rome, Italy

[15] **Haugg, A.**, Manoliu, A., Lor, C., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (February 2019). *Amygdala cue-reactivity encodes the shift from liking to wanting in nicotine use disorder*. 21st Annual Meeting of the Swiss Society for Neuroscience, Geneva, Switzerland

2018

[14] **Haugg, A.**, Sladky, R., Skouras, S., Craddock, C., McDonald, A., Kirschner, M., Herdener, M., Koush, Y., Kadosh, K., Zich, C., MacInnes, J. J., Adcock, R. A., Dickerson, K., Chen, N.-K., Young, K., Bodurka, J., Shuxia, Y., Becker, B., Auer, T., Schweizer, R., Emmert, K., Haller, S., Van de Ville, D., Blefari, M. L., Kim, D.-Y., Lee, J.-H., Marins, T., Fukuda, M., Sorger, B., Kamp, T., Papoutsis, M., Liew, S.-L., Spetter, M., Veit, R., Weiskopf, N. & Scharnowski, F. (October 2018). *Can we predict real-time fMRI neurofeedback learning success from pre-training brain activity?* Donders Discussions, Nijmegen, The Netherlands

[13] **Haugg, A.**, Manoliu, A., Lor, C., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (October 2018). *Amygdala cue-reactivity encodes the shift from liking to wanting in nicotine use disorder*. 5th Annual Burghölzli Psychiatry Meeting, Zurich, Switzerland

[12] **Haugg, A.**, Sladky, R., Skouras, S., Craddock, C., McDonald, A., Kirschner, M., Herdener, M., Koush, Y., Kadosh, K., Zich, C., MacInnes, J. J., Adcock, R. A., Dickerson, K., Chen, N.-K., Young, K., Bodurka, J., Shuxia, Y., Becker, B., Auer, T., Schweizer, R., Emmert, K., Haller, S., Van de Ville, D., Blefari, M. L., Kim, D.-Y., Lee, J.-H., Marins, T., Fukuda, M., Sorger, B., Kamp, T., Papoutsis, M., Liew, S.-L., Spetter, M., Veit, R., Weiskopf, N. & Scharnowski, F. (September 2018). *Can we predict real-time fMRI neurofeedback learning success from pre-training brain activity?* Symposium

for "Neurofeedback and other neurotechnologies in psychiatry", Maastricht, The Netherlands

[11] **Hugg, A.**, Manoliu, A., Lor, C., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (September 2018). *Amygdala cue-reactivity encodes the shift from liking to wanting in nicotine use disorder*. ZNZ Annual Symposium, Zurich, Switzerland

[10] **Hugg, A.**, Manoliu, A., Lor, C., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (July 2018). *Amygdala cue-reactivity encodes the shift from liking to wanting in nicotine addiction*. Workshop of the European Behavioural Pharmacology Society: Using Computational Approaches to Build a Two-way Bridge [received a travel award]

[9] **Hugg, A.**, Manoliu, A., Lor, C., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (June 2018). *Amygdala cue-reactivity encodes the shift from liking to wanting in nicotine use disorder*. 24th Annual Meeting of the Organization for Human Brain Mapping, Singapore [received a travel award, selected for a talk]

[8] **Hugg, A.**, Sladky, R., Skouras, S., Craddock, C., Mcdonals, A., Kirschner, M., Herdener, M., Koush, Y., Kadosh, K., Zich, C., MacInnes, J. J., Adcock, R. A., Dickerson, K., Chen, N.-K., Young, K., Bodurka, J., Shuxia, Y., Becker, B., Auer, T., Schweizer, R., Emmert, K., Haller, S., Van de Ville, D., Blefari, M. L., Kim, D.-Y., Lee, J.-H., Marins, T., Fukuda, M., Sorger, B., Kamp, T., Papoutsis, M., Liew, S.-L., Spetter, M., Veit, R., Weiskopf, N. & Scharnowski, F. (June 2018). *Pre-training localizer activity is related to real-time fMRI neurofeedback learning success*. 24th Annual Meeting of the Organization for Human Brain Mapping, Singapore

[7] **Hugg, A.**, Manoliu, A., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (March 2018). *Disentangling cue-induced wanting and liking in nicotine use disorder*. 21st Annual Interdisciplinary College, Günne, Germany

[6] **Hugg, A.**, Manoliu, A., Sladky, R., Hulka, L., Kirschner, M., Bruhl, A. B., Seifritz, E., Quednow, B. B., Herdener, M. & Scharnowski, F. (February 2018). *Disentangling cue-induced wanting and liking in nicotine use disorder*. 20th Annual Meeting of the Swiss Society for Neuroscience, Zurich, Switzerland

2017

[5] **Hugg, A.**, Sladky, R., Kirschner, M., Herdener, M., Koush, Y., MacInnes, J.J., Dickerson, K.C., Chen, N.K., Adcock, R. A., Young, K., Yao, S., Becker, B., Emmert, K., Van De Ville, D., Haller, S., Scheerer, H., Bruhl A. B., Fukuda, M., Weiskopf, N., Scharnowski, F. (November 2017). *Pre-training localizer activity predicts real-time fMRI neurofeedback learning success*. 3rd Biennial Real-time Functional Imaging and Neurofeedback Conference, Nara, Japan [received a travel award]

[4] **Hugg, A.**, Sladky, R., Kirschner, M., Herdener, M., Koush, Y., MacInnes, J.J., Dickerson, K.C., Chen, N.K., Adcock, R. A., Young, K., Yao, S., Becker, B., Emmert, K., Van De Ville, D., Haller, S., Scheerer, H., Bruhl A. B., Fukuda, M., Weiskopf, N., Scharnowski, F. (September 2017). *Pre-training localizer activity predicts real-time fMRI neurofeedback learning success*. ZNZ Annual Symposium, Zurich, Switzerland

[3] **Haugg, A.**, Sladky, R., Koush, Y., Kirschner, M., Scheerer, H., Herdener, M., Weiskopf, N., Brühl, A. & Scharnowski, F. (June 2017). *Pre-training localizer activity predicts real-time fMRI neurofeedback learning success*. 23rd Annual Meeting of the Organization for Human Brain Mapping, Vancouver, Canada

2016

[2] **Haugg, A.**, Cusack, R., Gonzalez-Lara, L., Sorger, B., Owen, A. M. & Naci, L. (June 2016). *The functional connectivity of conscious information processing during movie watching*. 20th Annual Meeting of the Association for the Scientific Study of Consciousness, Buenos Aires, Argentina [selected for a talk]

[1] **Haugg, A.**, Cusack, R., Sorger, B., Owen, A. M. & Naci, L. (May 2016). *A comparison of fMRI-based functional connectivity during resting-state and naturalistic stimulation*. 10th Annual Meeting of the Canadian Association for Neuroscience, Toronto, Canada