Curriculum Vitae

DR. ROMY LORENZ

EDUCATION

2013 – 2017	PhD Neurotechnology Thesis: <i>Neuroadaptive Bayesian optimization – Implications for the Cognitive Sciences</i> Supervisors: Dr. Robert Leech & Dr. Aldo Faisal	Imperial College London London, UK
2009 – 2012	MSc Human Factors (Distinction) neuro-cognitive psychology, neuroergonomics, brain-computer interfaces	Technical University of Berlin Berlin, Germany
2011	Study abroad biomedical engineering, system and computational neuroscience	Tsinghua University Beijing, China
2006 – 2009	BSc Business Psychology (First Class Honours) cognitive psychology, cognitive ergonomics, engineering psychology, Human Factors	Leuphana University Lüneburg, Germany
2008	Study abroad industrial psychology, usability engineering	Judson University Elgin, USA

RESEARCH POSITIONS

Sep 2018 – Aug 2022	Sir Henry Wellcome Postdoctoral Fellow For my Fellowship, I want to understand how frontoparietal brain networks give rise to	University of Cambridge Cambridge, UK	
	our powerful cognitive abilities. I will approach this question in two stages: First, by using automated meta-analytic and text mining techniques, I will integrate information from thousands of existing experiments. This knowledge will then be refined using parameterize parameterization. This work will be analyticated target be using the staget the parameterization.	Max-Planck Institute for Human Cognitive & Brain Sciences Leipzig, Germany	
	Duncan (Cambridge University), Nikolaus Weiskopf (MPI) and Russ Poldrack (Stanford University). In addition, I am collaborating with Adam Hampshire (Imperial College London) and Thomas Yeo (National University of Singapore).	Stanford University Paalo Alto, US	
Jul 2017 – Aug 2018	Postdoctoral Fellow, Department of Medicine Advancing neuroadaptive Bayesian optimization technology	Imperial College London	
Sep 2017– Oct 2017	Visiting Researcher , Computational Brain Imaging Group of Prof. BT Thomas Yeo Advancing text-mining of cognitive neuroimaging literature and towards evaluating top- down cognitive ontologies using neuroadaptive Bayesian Optimization	National University of Singapore Singapore	
Oct 2013 – Jun 2017	Brain Science & Engineering PhD Training Fellow , Department of Medicine & Department of Bioengineering, Development of novel framework for optimizing experimental design in cognitive neuroscience using closed loop real-time fMRI and Bayesian optimization.	Imperial College London London, UK	
Mar 2013 – May 2013	Visiting Researcher , Department of Cognitive Science & Swartz Center for Computational Neuroscience In-depth analyses of EEG data and application of machine-learning techniques for single-trial detection of error potentials for potential real-world application.	University of California San Diego (UCSD) _{San Diego, USA}	
Dec 2012 – Feb 2013	Research Associate , Berlin Brain-Computer Interface Group, Machine Learning Department Acquiring and analyzing EEG data and applying machine learning to identify individual stable brain patterns, which allow a reliable brain-computer interface based neuroprosthetic control.	Technical University of Berlin Berlin, Germany	
Mar 2012 – Oct 2012	Graduate Thesis , Berlin Brain-Computer Interface Group, Department of Neurotechnology Evaluating usability and user experience of EEG-controlled brain-computer interface for prospective neuroprosthetic control within the EU-project MUNDUS.	Technical University of Berlin Berlin, Germany	
Feb 2011 – Jun 2011	Lab Work, Institute for Neural Engineering, Department of Biomedical Engineering, School of Medicine Planning, conducting and analyzing EEG and fMRI experiments.	Tsinghua University Beijing, China	

TEACHING

Jun 2016	Lecturer for "Brain-computer interfaces: Sci-fi or Reality?" Designing and teaching of half-day workshop, 9th IMPRS Summer School at Max Planck Institute for Human Cognitive & Brain Sciences
Every Feb 2017- 2019	Lecturer for "Non-invasive brain-computer interfaces" (MSc Translational Neuroscience), Designing and teaching of one-day course, Department of Medicine, Imperial College London
Oct 2015 – Dec 2015	Tutor for "The World Today" (1 _{st} year undergraduates), Imperial Horizons programme, Imperial College London (the team I was tutoring won one of the final prizes)
Feb 2015 – Apr 2015	Teaching Assistant for "Brain-Machine Interfaces" (MSc Biomedical Engineering/MRes Neurotechnology), Department of Bioengineering, Imperial College London
Oct 2015 – Jan 2015	Teaching Assistant for "Modelling in Biology" (BEng Biomedical Engineering), Department of Bioengineering, Imperial College London

SUPERVISION

Supervision MSc/MRes 2018 Meghan Good MRes Experimental Neuroscience, Imperial College London 2018 Jiewon Kang MRes Neurotechnology, Imperial College London **Co-Supervision** 2019 - today Danielle Kurtin, University of Surrey (jointly with Dr. Ines Violante) PhD PhD 2018 - today Nadene Dermody, University of Cambridge (jointly with Dr. Alex Woolgar) MSc/MRes 2019 Garazi Oiarbide MRes Experimental Neuroscience, Imperial College London 2018 Pedro Costa MSc Biomedical Engineering, Lisbon University 2016 Lisa Evans MRes Experimental Neuroscience, Imperial College London BSc 2016 Amanda da Silva **BEng Biomedical Engineering**, Lisbon University 2014 Paulina Majewska **BSc Medical Biosciences**, Imperial College London

GRANTS & FELLOWSHIPS

- 2020 Klaus Tschira Boost Fund (€ 80k) by German Scholars Organization for project "Dissociating laminar activation in the human frontoparietal cortex: combining neuroadaptive Bayesian optimization with ultrahigh-field fMRI" (role: PI)
- 2017 Sir Henry Wellcome Postdoctoral Fellowship (£ 250k incl. personal salary) by Wellcome Trust for project "Fractionating the human frontoparietal cortex: combining meta-analytic and real-time optimization approaches" (role: Pl)
- 2017 **Future Leader Fellowship (£ 300k** incl. personal salary) by BBSRC for project "Fractionating the human frontoparietal cortex: combining meta-analytic and real-time optimization approaches" (role: PI) [DECLINED]
- 2017 EPSRC Doctoral Prize Fellowship (£ 56,711 incl. personal salary) by Imperial College London (role: PI)
- 2016 Travel Grant (€ 225), 6th International Conference on Transcranial Brain Stimulation
- 2015 **ITMAT Funding Award (£ 68,990)** by NIHR Imperial Biomedical Research Centre for project "Tailored noninvasive brain stimulation for rehabilitation of TBI using real-time fMRI" (role: co-author & named researcher, PI: Dr. Violante)
- 2015 Student Travel Grant (\$ 1,250), Real-time Functional Imaging & Neurofeedback Conference 2015
- 2013 Brain Science & Engineering PhD Training Fellowship (£ 22,500 p.a. incl. salary), Imperial College London
- 2013 Multimodal Neuroimaging Training Program Scholarship (\$ 3,250), Carnegie Mellon University
- 2013 G.A.-Lienert Scholarship (€ 3,000), Justus-Liebig University Giessen
- 2013 VRC Corporation Exchange Grant (€ 900), HFES Europe
- 2011 Chinese Government Scholarship (RMB 37,100)

AWARDS & PRIZES

- 2018 Outstanding Contributions in AI PhD Thesis Innovation Award, CogX 2018
- 2017 Merit Abstract Award (\$ 2,000), Organization for Human Brain Mapping 2017
- Best Paper Award (€ 200), Workshop on Pattern Recognition in Neuroimaging 2016
- 2016 Shortlisted for NeuroImage Best Paper Award 2016, Organization for Human Brain Mapping 2016
- 2016 Highlighted Poster Presentation, 6th International Conference on Transcranial Brain Stimulation
- 2014 **1**st place Early Career Best Paper Award (€ 500), HFES Europe
- 2013 Graduate Student Excellence Award, VDI Association of German Engineers
- 2013 **2nd place Poster Competition**, 6th Hamlyn Symposium on Medical Robotics
- 2013 1st place 'Clara von Simson' Prize (€ 2,500), best thesis of a female graduate, Technical University of Berlin

INVITED TALKS

- Jan 2020 **Basque Center on Cognition, Brain and Language,** External Speakers Series (David Soto), San Sebastian, Spain
- Jan 2020 **University of Vienna**, Department of Basic Psychological Research and Research Methods (Frank Scharnowski), Vienna, Austria
- Dec 2019 Brain Modes Conference 2019, Pokhara, Nepal
- Sep 2019 University of Sussex, Sensation & Perception to Awareness Seminar Series (Anil Seth), Sussex, UK
- Jul 2019 <u>Keynote lecture</u> at 'Neuroadaptive Technology Conference', Liverpool, UK
- Feb 2019 Max Planck UCL Centre for Computational Psychiatry & Ageing Research (Ray Dolan), London, UK
- Jan 2019 Keynote lecture at 'Closing Loops in Cognitive Neuroscience' Workshop, Bern, Switzerland
- Mar 2018 Gatsby Computational Neuroscience Unit (Aapo Hyvarinen), London, UK
- Feb 2018Technical University Berlin, Neuroergonomics Group (Klaus Gramann), Berlin, Germany
- Jan 2018 Birkbeck University, Centre for Brain and Cognitive Development (Angelica Ronald), London, UK
- Dec 2017 **NIPS Workshop** "Bayesian Optimization for Science & Engineering", LA, USA slides: <u>https://figshare.com/articles/RomyLorenz_NIPS_Workshop2017/5687128</u>

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Oct 2017National University of Singapore, Clinical Imaging Centre (Thomas Yeo), SingaporeAug 2017Cardiff University, School of Psychology (Chris Chambers), Cardiff, UKApr 2017King's College London, Department of Neuroimaging (Steve Williams), London, UKDec 2016King's College London, Department of Bioengineering (Giovanni Montana), London, UK

UPCOMING INVITED TALKS

Sep 2020	Falling Walls: Biomedicine meets biostatistics symposium, Frauenchiemsee, Germany
Sep 2020	Keynote lecture at "Pattern Recognition in Neuroimaging" PRNI Summer School, Vienna, Austria

PUBLIC ENGAGEMENT

2016 - 2018	Director and Public Engagement Curator of AXNS Collective - Art x Neuroscience AXNS <u>http://axnscollective.org/</u> is a not-for-profit, curatorial collective that explores the intersection between art, neuroscience & technology. We are four women working across the arts and sciences and curate exhibitions, events and workshops such as:	
	 SINES - an LSD brain wave and sound art hackathon with Imperial College London at Somerset House in London (Mar 2017) which resulted in an album you can listen to on bandcamp (<u>https://axnscollective.bandcamp.com/album/sines-an-lsd-brain-wave-and-sound-art-hackathon</u>) Papel Discussion Quantifying Acethotic Emotions: What are the Implications for the Arts2 STATE Eastivel Barlin (New 2016). 	
lan 2018	- Pariel Discussion Quantifying Assureus Emotions. What are the implications for the Arts? STATE Lestival Benin (Nov 2010)	
Jan 2010	Free evening of discovery for general public (across all age groups) by scientists of Imperial College London. I headed our team and was in charge of designing our hands-on demo: participants could test their mental skills on an iPad with "Cognitron" – the world's first Al web server to test human intelligence developed by our team (PI: Dr Adam Hampshire).	
Nov 2016	Future Forum Talk Zapping your teacher's brain to explore the potential of neurotechnology, King's College School Wimbledon, London	
	Future Forum Talks is for teens (13-16 years) to ask questions and explore ideas. I gave an interactive presentation on how the brain works and how neurotechnology can help to treat the 'diseased' or injured brain.	
Sept 2016	NeuroTechX panel discussion A skeptical look into neurotech, THECUBE, London I initiated, organized and chaired a panel discussion about the fast growing field of neurotechnology that has created a lot of hype, misinformation and unrealistically high expectations. The aim of the panel was to better under the limits of the field. Invited experts: NeuroSkeptic, Prof Eduardo Miranda, Dr InesViolante, Luke Mason and Tre Azam.	
2014-2016	Brain Injury Meet the Scientist Day	
	Yearly event to engage patients suffering from traumatic brain injury and their families in our research. The event featured tours through our labs. I demonstrated EEG and brain stimulation as potential rehabilitation methods and designed questionnaires to measure the patient everyday technology usage and their readiness to learn and use new technology.	
Aug 2014	STEM World Summer School	
	This scheme offers hand-on enrichment activities in STEM subjects. I performed a live demonstration of my real-time functional brain imaging setup for a group of students (15-18 years). The students could track how brain activity changes in the motor cortex due to executed and even imagined finger movements. By this we could highlight the potential for using real-time neuroimaging for decoding cognitive states in humans.	
July 2014	Royal Society Summer Science Exhibition	
	The Summer Science Exhibition is an annual display of the most exciting cutting-edge science and technology research. I was part of the organization team and in charge of the production of the video explaining our research addressing a non-expert audience. During the one-week exhibition we interactively engaged the interested public in our research.	

MEDIA OUTREACH

Apr 2019	BBC News, comment for online article <i>Could a computer ever create better art than a human?</i>
Nov 2018	Creative Intelligence podcast with James Ingram Creative intelligence, neuroscience & Al
Mar 0010	http://www.creativeintelligence.fm/creative-intelligence-neuroscience-and-ai/
Mar 2018	IEDXNIUA talk Understanding the numan mind without a numan mind: The AI neuroscientist https://www.youtube.com/watch?v=CVBIwQ0gzYU
Nov 2017	WIRED Live talk A/ & Research, London, UK
Oct 2017	On Augmentation, online interview https://on-augmentation.co/interview-with-romy-c2158f8b063f
Sep 2017	WIRED Magazine , featured in article <i>This AI could hold the key to decoding human intelligence</i> by Roger Highfield <u>http://www.wired.co.uk/article/automatic-neuroscientist-ai-brain-experiments</u>

ACADEMIC COMMUNITY INVOLVEMENT

Symposia

Organizer & chair of symposium "Causal inference applied to cognitive neuroscience: from brain
connectivity to neurocognition" at the Annual Meeting of Cognitive Neuroscience Society (CNS)
Co-initiator/organiser of CoCoNUT - the Cognitive Computational Neuroscience Unification Trial
Bi-monthly meetup group across whole Max Planck Institute CBS to discuss ongoing research projects, new papers, methods, and have philosophical debates to gain more mechanistic insights into cognition https://www.cbs.mpg.de/en/cbs-coconut .
Co-initiator/organiser of P3NL – the Peer-reviewed and Published Papers News Loop
Monthly scheme to present recently published papers by lab members and to provide insights into the publishing process. P3NL is about promoting communication and transparency and stimulate new collaborations http://c3nl.com/events/p3nl .

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Guest Editor	Journal of Cognitive Neuroscience - Special Focus on "Causal inference applied to cognitive
	neuroscience: from brain connectivity to neurocognition"
Ad-hoc peer reviewer	Advanced Science, NeuroImage, PLOS Computational Biology, Wellcome Open Research, Journal of Neural Engineering, IEEE Transactions on Neural Systems & Rehabilitation Engineering, Frontiers in Neuroscience
Panel member	Human Brain Project Calls for Expression of Interest Validation and Inference
Memberships	ALIUS Interdisciplinary research group on the diversity of consciousness http://aliusresearch.org

PROJECT WORK

 Freelance consultant for project *Technology Watch*, OutSmart Insights Ltd, London, UK Tracking and summarizing latest breakthrough developments across science, technology and engineering themes.
 Freelance consultant for project *Brain-Computer Interfacing in Robotic Surgery*, collaboration between Hamlyn Centre for Robotics (ICL) and Technical University of Berlin Main advisory consultant on study design and EEG setup. The study aimed to showcase the potential of brain-computer interfaces in robotic surgery and was conducted with resident surgeons.

SKILLS

Programming	MATLAB, Python, BASH
Software	FSL, SPM, EEGLAB, FieldTrip, AFNI, SPSS, LaTeX, Adobe Illustrator, Wordpress
Lab Skills	fMRI, EEG, transcranial electrical brain stimulation, eye tracking
Languages	German (native), English (fluent)

PUBLICATIONS

Open Access Code available

	Monti RP, Gibberd A, Roy S, Nunes M, Lorenz R, Leech R, Ogawa T, Kawanabe M, Hyvarinen A (2020). Interpretable brain age prediction using linear latent variable models of functional connectivity. <i>PLOS ONE</i>	
	Lorenz R, Simmons L, Monti RP, Arthur J, Limal S, Leech R, Violante IR. (2019). Efficiently searching through large tACS parameter spaces using closed-loop Bayesian optimization. <i>Brain Stimulation</i> , 12(6), 1484-1489, doi: 10.1016/j.brs.2019.07.003	
	Lorenz R, Violante IR, Monti RP, Montana G, Hampshire A, Leech R (2018). Dissociating frontoparietal networks using neuroadaptive Bayesian optimization. <i>Nature Communications</i> , 9(1): 1227, doi: 10.1038/s41467-018-03657-3	$\widehat{\bullet} \bigcirc$
	Cole J, Lorenz R, Geranmayeh F, Wood T, Hellyer P, Williams S, Turkheimer F (2018). Active Acquisition for multimodal neuroimaging [version 1; referees: awaiting peer review]. Wellcome Open Research, 3:145, doi:10.12688/wellcomeopenres.14918.1	•
	Lancaster J, Lorenz R, Leech R & Cole JH (2018). Bayesian Optimization for Neuroimaging Pre-processing in Brain Age Classification and Prediction. <i>Frontiers in Aging Neuroscience</i> , 10:28, doi: 10.3389/fnagi.2018.00028	$\overline{\bullet}$
	Haijen E, Kaelen M, Roseman L, Timmermann C, Russ S, Nutt D, Daws RE, Hampshire A, Lorenz R & Carhart-Harris R (2018). Predicting responses to psychedelics: a prospective study. <i>Frontiers in Pharmacology</i> , doi:10.3389/fphar.2018.00897	•
Journal papers	Lorenz R, Hampshire A, Leech R (2017). Neuroadaptive Bayesian optimization and hypothesis testing. <i>Trends in Cognitive Sciences</i> , 21(3): 155-167, doi: 10.1016/j.tics.2017.01.006	ξ ³ .
	Monti RP, Lorenz R, Braga RM, Anagnostopoulos C, Leech R, Montana G (2017). Real-time estimation of dynamic functional connectivity networks, <i>Human Brain Mapping</i> , 38:202-220, doi: 10.1002/hbm.23355	년 🎲
	Monti RP, Lorenz R, Hellyer P, Leech R, Anagnostopoulos C, Montana G (2017). Decoding time-varying functional connectivity networks via linear graph embedding methods. <i>Frontiers in Computational Neuroscience</i> , 11:14, doi: 10.3389/fncom.2017.00014	윤 🕸
	Violante IR, Li LM, Carmichael DW, Lorenz R, Leech R, Hampshire A, Rothwell JC, Sharp, DJ (2017). Externally induced frontoparietal synchronization modulates network dynamics and enhances working memory performance. <i>Elife</i> , 6:e2200, doi: 10.7554/eLife.22001	•
	Lorenz R, Monti RP, Violante IR, Anagnostopoulos C, Faisal AA, Montana G, Leech R (2016). The Automatic Neuroscientist: A framework for optimizing experimental design with closed-loop real-time fMRI. <i>NeuroImage</i> 129: 320-334, doi: 10.1016/j.neuroimage.2016.01.032	·
	Dinov M, Lorenz R, Scott G, Fagerholm E, Sharp DJ, Leech R (2016). Novel modeling of task versus rest brain state predictability using dynamic time warping: comparisons and contrasts with DFT, EEG avalanches, EEG microstates and BOLD dynamics, <i>Frontiers in Computational Neuroscience</i> , 10:46, doi: 10.3389/fncom.2016.00046	•
	Zander TO, Shetty K, Lorenz R, Leff DR, Krol LR, Darzi AW, Gramann K, Yang G-Z (2016). Automated Task Load Detection with Electroencephalography: Towards Passive Brain-Computer Interfacing in Robotic Surgery, <i>Journal of Medical Robotics</i> <i>Research</i> , 2(1): 1750003, doi: 10.1142/S2424905X17500039	
	Kaelen M, Roseman L, Kahan J, Ribeiros AS, Orban C, Lorenz R et al. (2016). LSD enhances music-induced imagery via changes in parahippocampal connectivity, <i>European Neuropsychopharmacology</i> , 26(7):1099-109, doi: 10.1016/j.euroneuro.2016.03.018	
	Fagerholm E, Lorenz R, Scott G, Dinov M, Hellyer P, Mirzaei N, Lesson C, Carmichael D, Sharp D, Shew W, Leech R (2015). Cascades and cognitive state: focused attention incurs subcritical brain dynamics. <i>Journal of Neuroscience</i> , 35(11): 4626-4634, doi: 10.1523/JNEUROSCI.3694-14.2015	•
	Kaelen M, Barrett FS, Roseman L, Lorenz R, Family N, Bolstridge M, Curran HV, Feilding A, Nutt DJ, Carhart- Harris RL (2015). LSD enhances the emotional response to music. <i>Psychopharmacology</i> , 232(19): 3607-3614. doi: 10.1007/s00213-015-4014-y	
	Lorenz R, Pascual J, Blankertz B, Vidaurre C (2014). Towards a holistic assessment of the user experience with hybrid BCIs. Journal of Neural Engineering, 11(3): 035007, doi: 10.1088/1741-2560/11/3/035007	

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	Vidaurre C, Pascual J, Ramos-Murguialday A, Lorenz R, Blankertz B, Birbaumer N, Mueller K-R (2013). Neuromuscular electrical stimulation induced brain patterns to decode motor imagery. <i>Clinical Neurophysiology</i> , 124(9): 1824-1834, doi: 10.1016/j.clinph.2013.03.009	
	 Costa PF, Lorenz R, Monti RP, Jones E, Leech R (2020). Bayesian optimization for real-time, automatic design of face stimuli in human centred research. Submitted to 7th ICML Workshop on Automated Machine Learning Costa PF, Popescu S, Leech R, Lorenz R (2019). Elucidating Cognitive Processes using LSTMs, Cognitive Computational Neuroscience, Conference 2019. url: https://coneuro.org/2019/orgceedings/0000272.pdf 	•
	Lorenz R*, Monti RP*, Hampshire A, Koush Y, Anagnostopoulos C, Faisal A, Sharp D, Montana G, Leech R, Violante IR (2016). Towards tailoring non-invasive brain stimulation using real-time fMRI and Bayesian optimization, In 6th International Workshop on Pattern Recognition in Neuroimaging (PRNI), doi: 10.1109/PRNI.2016.7552338	\bigcirc
Conference papers	Monti RP, Lorenz R, Leech R, Anagnostopoulos C, Montana G (2016). Text-mining the NeuroSynth corpus using Deep Boltzmann Machines, In 6th International Workshop on Pattern Recognition in Neuroimaging (PRNI), doi: 10.1109/PRNI.2016.7552329	\$ \$ \$
	Lorenz R*, Monti RP*, Violante IR, Faisal A, Anagnostopoulos C, Leech R, Montana G (2015). Stopping criteria for boosting automatic experimental design using real-time fMRI with Bayesian optimization. In 5th NIPS Workshop on Machine Learning and Interpretation in Neuroimaging: Beyond the Scanner, arXiv:1605.04435v1, MLINI/2015/15	
	Monti RP, Lorenz H, Hellyer P, Leech R, Anagnostopoulos C, Montana G (2015). Graph Embeddings of Dynamic Functional Connectivity Reveal Discriminative Patterns of Task Engagement in HCP Data. In 5th International Workshop on Pattern Recognition in Neuroimaging (PRNI), doi: 10.1109/PRNI.2015.21	\$\$ \$
	Pascual J, Lorenz R, Blankertz B, Vidaurre C (2013). Hybrid EEG-based BCI User Interface for Action Selection. In Pons JL, Torricelli D, Pajaro M (eds.) Converging Clinical & Engineering Research on Neurorehabilitation, BIOSYSROB 1 (pp. 1171-1176). Springer, Berlin, Heidelberg, doi: 10.1007/978-3-642-34546-3_194	
Book chapters	Zander TO, Brönstrup J, Lorenz R, Krol LR (2014). Towards BCI-based Implicit Control in Human-Computer Interaction.In S Fairclough and K Gilleade (eds), Advances in Physiological Computing, Human Computer Interaction Series (pp.67-90). Springer, London, doi: 10.1007/978-1-4471-6392-3_4	
	Lorenz R (2019). Neuroadaptive Bayesian optimization in healthy and diseased individuals. Talk at symposium "Closing the loop between brain and behavior – hemodynamic neurofeedback and beyond", annual Meeting "Psychologie und Gehirn", 22.06.2019, Dresden, Germany	
	Lorenz R (2019). Towards neuroadaptive technology for neurophenomenology. ENCECON Workshop organised by Mind & Life Europe, 13.06.2019, Buchenau, Germany.	
	Lorenz R, Violante IR, Monti R, Montana G, Hamshire A, Leech R (2017). Fractioning frontoparietal brain networks using neuroadaptive Bayesian optimization. <i>Real-time functional neuroimaging and neurofeedback conference</i> 2017, 30.9.2017, Nara, Japan.	
	Lorenz R, Violante IR, Monti R, Montana G, Hamshire A, Leech R (2017). Fractioning frontoparietal brain networks using neuroadaptive Bayesian optimization. Organization for Human Brain Mapping Annual Meeting 2017, 30.6.2017, Vancouver, Canada. Slides: <u>https://figshare.com/articles/RomyLorenz_OHBM2017_pdf/5160877</u>	
Conference talks	Lorenz R, Monti RP, Hampshire A, Koush Y, Anagnostopoulos C, Faisal A, Sharp D, Montana G, Leech R, Violante IR (2016). Towards tailoring non-invasive brain stimulation using real-time fMRI and Bayesian optimization. 6th International Workshop on Pattern Recognition in Neuroimaging (PRNI), 23.06.2016, Trento, Italy.	
	Lorenz R, Monti RP, Leech R, Anagnostopoulos C, Montana G (2016). Text-mining the Neurosynth corpus using Deep Boltmann Machines. 6th International Workshop on Pattern Recognition in Neuroimaging (PRNI), 22.06.2016, Trento, Italy.	
	Lorenz R, Monti RP, Violante IR, Anagnostopoulos C, Faisal AA, Montana G, Leech R (2015). Stopping criteria for boosting automatic experimental design using real-time fMRI with Bayesian optimization. 5th NIPS Workshop on Machine	
	Learning and Interpretation in Neuroimaging: Beyond the Scanner, 11.12.2015, Montreal, Canada.	
	towards optimising patient-tailored cognitive rehabilitation therapy. <i>International Conference on Brain Informatics & Health</i> , 30.08.2015, London, UK.	
	Lorenz R, Pascual J, Blankertz B, Vidaurre C (2013). Assessing the User Experience with Hybrid BCls. 4th TOBI Workshop – Practical Brain-Computer Interfaces for End-Users: Progress and Challenges, 23.01.2013, Sion, Switzerland.	
	Lorenz R, Johal M, Dick F, Hampshire A, Leech R, Geranmayeh F (2019). Identifying individual functional profiles for a frontoparietal network in aphasic stroke patients. Organization for Human Brain Mapping Annual Meeting 2019. Rome. Italy	
	Kang J, Violante IR, Monti RP, Soreq E, Leech R, Hampshire A & Lorenz R (2018). Dissociating frontoparietal networks based on functional connectivity states. <i>BioMedEng18 Conference</i> , London, UK	
	Lorenz R, Simmons L, Monti RP, Arthur J, Limal S, Leech R & Violante IR (2017). Assessing tACS-induced phosphene perception using adaptive Bayesian optimization. <i>Organization for Human Brain Mapping Annual Meeting 2017</i> , Vancouver, Canada.	
	Lorenz R, Monti RP, Koush Y, Anagnostopoulos C, Faisal A, Sharp D, Hampshire A, Montana G, Leech R & Violante IR (2016). The Automatic Neuroscientist: Tailoring non-invasive brain stimulation using real-time fMRI and Bayesian optimization, 6th International Conference on Transcranial Brain Stimulation, Göttingen, Germany.	
Conference posters	Lorenz R, Monti RP, Koush Y, Anagnostopoulos C, Faisal A, Sharp D, Hampshire A, Montana G, Leech R & Violante IR (2016). Tailoring non-invasive brain stimulation using real-time fMRI and Bayesian optimization, Organization for Human Brain Mapping Annual Meeting 2016, Geneva, Switzerland.	
(first- & senior- authored ones listed only)	Lorenz R, Monti RP, Koush Y, Anagnostopoulos C, Faisal A, Sharp D, Hampshire A, Montana G, Leech R & Violante IR (2016). Tailoring non-invasive brain stimulation using real-time fMRI and Bayesian optimization, <i>Brain Stimulation and Imaging Meeting</i> , Geneva, Switzerland.	
liotod of liyy	Lorenz R, Monti RP, Braga R, Anagnostopoulos C, Faisal A, Montana G & Leech R (2015). Turning fMRI experiments on its head using rt-fMRI: opening new avenues in cognitive neuroscience. Organization for Human Brain Mapping Annual Meeting 2015, Honolulu, US.	
	Lorenz R, Monti RP, Cole J, Faisal A, Anagnostopoulos C, Montana G & Leech R (2015). Towards steering the chronnectome - on the potential of dynamic functional connectivity-based neurofeedback of large scale brain networks. <i>Real-time Functional Imaging and Neurofeedback Conference 2015</i> , Gainesville, US.	
	Lorenz R, Faisal AA, Dinov M, Violante IR & Leech R (2014). Neurofeedback training of large-scale brain networks. Annual Meeting of Society of Neuroscience 2014, Washington DC, US.	
	Lorenz R, Pascual J, Blankertz B & Vidaurre C (2013). Towards a broad-scale Usability Evaluation of Hybrid BCIs. 5th International Brain-Computer Interface Meeting 2013, Pacific Grove, US.	
Open peer- reviews	Leech R & Lorenz R (2017) Review for: J Westfall, TE Nichols, T Yarkoni. Fixing the stimulus-as-fixed-effect fallacy in task fMRI, Wellcome Open Research, doi: 10.21956/wellcomeopenres.11977.r21481	F