

Deniz Kumral

Cirriculum Vitae

Department of Psychology
Neuropsychology
University of Freiburg
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EDUCATION

Expected June 2021: **Charité – Universitätsmedizin Berlin, Berlin, Germany**

- Dr.rer.med Dissertation: Variability in heart and brain activity across the adult lifespan

September 2012 – December 2014: **Freie Universität Berlin, Berlin, Germany**

- MSc in Social Cognitive Affective Neuroscience

September 2008 – June 2012: **Istanbul Bilgi University, Istanbul, Turkey**

- BA in Psychology, Salutatorian at Faculty of Arts and Science, Salutatorian
- BA in Management of Performing Arts (Double Major), Valedictorian

January 2011 – June 2011: **Utrecht University, Utrecht, The Netherlands**

- Social Neuroscience Minor Degree
- Thesis: Smile or Frown? It depends on the other: Forced Facial Expressions as Mediations for the Direction of Self-Evaluations

September 2003 – June 2008: **Deutsche Schule Istanbul, Istanbul, Turkey**

- Abitur, Bundesministerium für Bildung und Forschung, Germany

RESEARCH EXPERIENCE & INTERESTS

February 2021 – Present: **Albert Ludwig University of Freiburg, Department of Psychology, Neuropsychology, Freiburg, Germany (PI: Monika Schönauer)**

January 2015 – Present: **Max Planck Institute for Human Cognitive and Brain Sciences, Department of Neurology, Leipzig, Germany (PI: Arno Villringer)**

FUNDINGS AND AWARDS

- MPI PhD Scholarship (2014-2017)
- Adile Mermerci Foundation Stipend (2012-2013)
- Full Scholarship at Istanbul Bilgi University (2008-2012)
- Erasmus Exchange Program Scholarships (2010-2011)

SKILLS

Technical Skills: Matlab, R, Python, MS Office, Bash (Shell), HTML, CSS, SQL, Git

Research-related: AFNI, FSL, SPM, fMRIPrep, FreeSurfer, Fieldtrip, EEGLAB, Brainstorm, Brain Vision Analyzer, Kubios

Soft skills: Academic writing, effective proposal writing, research funding, project management, social media, scientific communication

LANGUAGES

- Turkish (native)
- English (fluent proficiency)
- German (professional working proficiency)

SCIENTIFIC PROFILES

- https://scholar.google.com/citations?user=qnYo_KEAAAAJ&hl=en
- <https://osf.io/g25z9/>
- <https://orcid.org/0000-0001-6584-7948>
- https://www.researchgate.net/profile/Deniz_Kumral

Reviewer Duty: NeuroImage, NeuroImage: Clinical, Scientific Reports, Journal of Neuroscience Methods, Journal of Psychophysiology, Cerebral Cortex

LIST OF PUBLICATIONS

Kumral D, Matzerath A, Leonhart R, Schönauer M. Spindle-dependent memory consolidation in healthy adults: A meta-analysis, *under review*.
(preprint available at <https://www.biorxiv.org/content/10.1101/2022.07.18.500433v1.abstract>)

Kumral D, Al E, Cesnaite E, Kornej J, Sander C, Hensch T, Zeynalova S, Tautenhahn S, Hagendorf A, Laufs U, Wachter R, Nikulin V, Villringer A. The Neural Representation of the Heart is Strongly Attenuated in Patients with Atrial Fibrillation, 2022, *JACC: Clinical Electrophysiology*, doi: 10.1016/j.jacep.2022.06.019

Uhlig M, Reinelt JD, Lauckner ME, **Kumral D**, Schaare HL, Mildner T, Babayan A, Engert V, Villringer A, Gaebler M. Rapid volumetric brain changes after acute psychosocial stress, 2022, *in revision*.
(preprint available at <https://www.biorxiv.org/content/10.1101/2021.12.01.470604v1.abstract>)

Cesnaite E, Steinfath TP, Idaji MJ, Stephani T, **Kumral D**, Haufe S, Sander C, Hensch T, Hegerl U, Riedel-Heller S, Roehr S, Schroeter M, Witte V, Villringer A, Nikulin V. Alterations in rhythmic and non-rhythmic resting-state EEG activity and their link to cognition in older age, 2022, *in revision*.
(preprint available at <https://www.biorxiv.org/content/10.1101/2021.08.26.457768v2.abstract>)

Schaare L, Blöchl M, **Kumral D**, Uhlig M, Lemcke L, Valk S, Villringer, A. Mental health, blood pressure and the development of hypertension, 2022, *in revision*.

Christoph E, Kerstin W Samira Z, Ronny B, **Kumral D**... LIFE-Adult-Study working group, Cohort Profile: The LIFE-Adult-Study, International Journal of Epidemiology, 2022, 1–14, doi: 10.1093/ije/dyab114

- Kumral D**, Cesnaite E, Beyer F, Hofmann SM, Hensch T, Sander C, Hegerl U, Haufe S, Villringer A, Witte AV, Nikulin V. Relationship between Regional White Matter Hyperintensities and Alpha Oscillations in Older Adults, *Neurobiology of Aging*, 2022, 112, 1-11, doi: 10.1016/j.neurobiolaging.2021.10.006
- Roebbig J, Erbey M, Babayan A, Reiter A, **Kumral D**, Schaare HL, Reinelt J, Gaebler M, Kunzmann U, Villringer A. Anger Regulation Choice- the Role of Age and Habitual Reappraisal, *Emotion*, 2021, doi: 10.1037/emo0000915.
- Stegmann T, Chu M, Witte V, Villringer A, **Kumral D**, Riedel-Heller SG. Laufs U, Löffler M, Wachter R, Zeynalova S. Heart failure is independently associated with white matter lesions on magnetic resonance imaging: insights from the LIFE-Adult Study, *ESC Heart Failure*, 2020, doi: 10.1002/ehf2.13166
- Erbey M, Roebbig J, Nierhaus T, Babayan A, **Kumral D**, Reinelt J, Reiter A, Schaare HL, Uhlig M, Gaebler M, Villringer A. Positivity in Younger and in Older Adults: Associations with Future Time Perspective and Socioemotional Functioning, *Frontiers in Psychology*, 2020; 11: 3146, doi:10.3389/fpsyg.2020.567133
- Koenig J, Abler B, Agartz I, Åkerstedt T, Andreassen OA, Anthony M, Bär K, Bertsch K, Brown RC, Brunner R, Carnevali L, Critchley HD, Cullen KR, De Geus EJC, de la Cruz Monte de Oca F, Dziobek I, Ferger MD, Fischer H, Flor H, Gaebler M, Gianaros PJ, Giummarra MJ, Greening SG, Guendelman S, Heathers JAJ, Herpertz SC, Hu MX, Jentschke S, Kaess M, Kaufmann T, Klimes-Dougan B, Koelsch S, Krauch M, **Kumral D**, Lamers F, Lee T, Lekander M, Lin F, Lotze M, Makovac E, Mancini M, Mancke F, Månsson KNT, Manuck SB, Mather M, Meeten F, Min J, Mueller B, Muench V, Nees F, Nga L, Nilsson G, Ordonez Acuna D, Osnes B, Ottaviani C, Penninx BWJH, Ponzio A, Poudel GR, Reinelt J, Ren P, Sakaki M, Schumann A, Sørensen L, Specht K, Straub J, Tamm S, Thai M, Thayer JF, Ubani B, van der Mee DJ, van Velzen LS, Ventura-Bort C, Villringer A, Watson DR, Wei L, Wendt J, Westlund Schreiner M, Westlye LT, Weymar M, Winkelmann T, Wu G, Yoo HJ, Quintana DS. Cortical Thickness and Resting State Cardiac Function Across the Lifespan: A Cross-Sectional Pooled Mega Analysis. *Psychophysiology*, 2020;00:1–16, doi:10.1111/psyp.13688
- Kumral D**, Şansal F, Cesnaite E, Mahjoory K, Al E, Gaebler M, Nikulin VV, Villringer A. BOLD and EEG signal variability at rest differently relate to aging in the human brain. *Neuroimage*. 2020;207:116373, doi:10.1016/j.neuroimage.2019.116373
- Kumral D**, Schaare HL, Beyer F, Reinelt J, Uhlig M, Liem F, Lampe L, Babayan A, Reiter A, Erbey M, Roebbig J, Loeffler M, Schroeter ML, Husser D, Witte AV, Villringer A, Gaebler M. The age-dependent relationship between resting heart rate variability and functional brain connectivity. *Neuroimage*. 2019;185:521-533, doi:10.1016/j.neuroimage.2018.10.027
- Morys F, Janssen L, Cesnaite E, Garcia-Garcia I, Kube J, Schrimpf A, **Kumral D**, Mehl N, Mahjoory K, Margulies DS, Gaebler M, Villringer A, Neumann J, Nikulin VV, Horstmann A, Hemispheric bias in resting state EEG and fMRI is related to approach/avoidance behaviors, but not BMI. *Human Brain Mapping*. 2019;1–17, doi:10.1002/hbm.24864
- Reinelt J, Uhlig M, Müller K, Mark E. L, **Kumral D**, Schaare HL, Baczkowski BM, Babayan A, Miray E, Roebbig J, Reiter AMF, Bae Yoon J, Kratzsch J, Thiery J, Hendler T, Villringer A, Gaebler M. Acute psychosocial stress alters thalamic network centrality. *Neuroimage*. 2019;199:680-690, doi:10.1016/j.neuroimage.2019.06.005
- Babayan A, Erbey M, **Kumral D**, Reinelt JD, Reiter AMF, Röbbig J, Lina Schaare H, Uhlig M, Anwender A, Bazin PL, Horstmann A, Lampe L, Nikulin VV, Okon-Singer H, Preusser S, Pampel A, Rohr CS, Sacher J, Thöne-Otto A, Trapp S, Nierhaus T, Altmann D, Arelin K, Blöchl M, Bongartz E, Breig P, Cesnaite E, Chen S, Cozatl R, Czerwonatis S, Dambrauskaite G, Dreyer M, Enders J, Engelhardt

- M, Fischer MM, Forschack N, Golchert J, Golz L, Guran CA, Hedrich S, Hentschel N, Hoffmann DI, Huntenburg JM, Jost R, Kosatschek A, Kunzendorf S, Lammers H, Lauckner ME, Mahjoory K, Kanaan AS, Mendes N, Menger R, Morino E, Nätke K, Neubauer J, Noyan H, Oligschläger S, Panczyszyn-Trzewik P, Poehlchen D, Putzke N, Roski S, Schaller MC, Schieferbein A, Schlaak B, Schmidt R, Gorgolewski KJ, Schmidt HM, Schrimpf A, Stasch S, Voss M, Wiedemann A, Margulies DS, Gaebler M, Villringer A. Data descriptor: A mind-brain-body dataset of MRI, EEG, cognition, emotion, and peripheral physiology in young and old adults. *Scientific Data*. 2019;6:180308, doi:10.1038/sdata.2018.308
- Mendes N, Oligschläger S, Lauckner ME, Golchert J, Huntenburg JM, Falkiewicz M, Ellamil M, Krause S, Baczkowski BM, Cozatl R, Osoianu A, **Kumral D**, Pool J, Golz L, Dreyer M, Haueis P, Jost R, Kramarenko Y, Engen H, Ohrnberger K, Gorgolewski KJ, Farrugia N, Babayan A, Reiter A, Schaare HL, Reinelt J, Röbbig J, Uhlig M, Erbey M, Gaebler M, Smallwood J, Villringer A, Margulies DS. Data descriptor: A functional connectome phenotyping dataset including cognitive state and personality measures. *Scientific Data*. 2019;6:180307, doi:10.1038/sdata.2018.307
- Schaare HL, Kharabian Masouleh S, Beyer F, **Kumral D**, Uhlig M, Reinelt JD, Reiter AMF, Lampe L, Babayan A, Erbey M, Roebbig J, Schroeter ML, Okon-Singer H, Müller K, Mendes N, Margulies DS, Witte AV, Gaebler M, Villringer A. Association of peripheral blood pressure with gray matter volume in 19- to 40-year-old adults. *Neurology*. 2019;92(8):758-773, doi:10.1212/WNL.0000000000006947