

CURRICULUM VITAE

Louis N. Vinke

Computational Neuroscience Doctoral Student (PhD defense date: June, 2020)
Graduate Program for Neuroscience, Boston University

Education

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| M.A., Experimental Psychology
Bowling Green State University, Bowling Green, OH | May, 2010 |
| B.S., Psychology & Electronic Media Arts and Communications (EMAC)
Rensselaer Polytechnic Institute, Troy, NY | May, 2006 |

Publications

1. Aghajari, S., **Vinke, L. N.** & Ling, S. (in press). Population Spatial Frequency Tuning in Human Early Visual Cortex. *Journal of Neurophysiology*. <https://doi.org/10.1152/jn.00291.2019>
2. **Vinke, L. N.** & Ling, S. (in press). Luminance Potentiates Human Visuocortical Responses. *Journal of Neurophysiology*. <https://doi.org/10.1152/jn.00589.2019>
3. Satizabal, C. L., Hieab, H. H., ..., **Vinke, L. N.**, et al. (2019). Genetic architecture of subcortical brain structures in 38,851 individuals. *Nature genetics*, 51(11). <https://doi.org/10.1038/s41588-019-0511-y>
4. Baese-Berk, M. M., Dilley, L. C., Henry, M. J., **Vinke, L. N.**, & Banzina, E. (2019). Not just a function of function words: Distal speech rate influences perception of prosodically weak syllables. *Attention, Perception, & Psychophysics*, 81(2). <https://doi.org/10.3758/s13414-018-1626-4>
5. Franke, B., Stein, J. L., ..., **Vinke, L. N.**, et al. (2016). Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. *Nature neuroscience*, 19(3). <https://doi.org/10.1038/nn.4228>
6. Hibar, D. P., Stein, J. L., ..., **Vinke, L. N.**, et al. (2015). Common genetic variants influence human subcortical brain structures. *Nature*, 520(7546). <https://doi.org/10.1038/nature14101>
7. Wang, H., Zhu, J., Reuter, M., **Vinke, L. N.**, Yendiki, A., Boas, D., Fischl, B., Akkin, T. (2014). Cross-validation of serial optical coherence scanning and diffusion tensor imaging: A study on neural fiber maps in human medulla oblongata. *NeuroImage*, 100. <https://doi.org/10.1016/j.neuroimage.2014.06.032>
8. Perrachione, T. K., Fedorenko, E. G., **Vinke, L. N.**, Gibson, E., & Dilley, L. C. (2013). Evidence for shared cognitive processing of pitch in music and language. *PLoS ONE*, 8(8). <https://doi.org/10.1371/journal.pone.0073372>
9. Dilley, L. C., Mattys, S. L., & **Vinke, L. N.** (2010). Potent prosody: Comparing the effects of distal prosody, proximal prosody, and semantic context on word segmentation. *Journal of Memory and Language*, 63(3). <https://doi.org/10.1016/j.jml.2010.06.003>

Conference Abstracts & Posters

1. **Vinke, L. N.**, Bloem, I. M., & Ling, S. (2019). Population contrast response functions in human visual cortex. *Vision Sciences Society Meeting*.
2. **Vinke, L. N.** & Ling, S. (2018). Luxotonic responses within human visual cortex depend on stimulus contrast. *Society for Neuroscience Meeting*.
3. **Vinke, L. N.** & Ling, S. (2018). Luminance response functions in the human visual cortex. *Vision Sciences Society Meeting*.
4. Yazdanbakhsh, A., & **Vinke, L. N.** (2018). Brightness Induction Enhancements and Limitations at Low Frequency Modulations Across a Variety of Stimulus Contexts. *Vision Sciences Society Meeting*.
5. **Vinke, L. N.** & Ling, S. (2017). Luminance modulates the contrast response in human visual cortex. *Vision Sciences Society Meeting*.

6. **Vinke, L. N.** & Ling, S. (2016). Luminance modulates the contrast response in human visual cortex. *Society for Neuroscience Meeting*.
7. Magnain, C., Augustinack, J. C., Reuter, M., Wachinger, C., **Vinke, L. N.**, Frosch, M. P., Ragan, T., Akkin, T., Wedeen, V. J., Boas, D. A., & Fischl, B. (2015). Blockface histology with optical coherence tomography: A comparison with Nissl staining. *Organization for Human Brain Mapping Meeting*.
8. Edlow, B.L., McNab, J.A., Van der Kouwe, A., Witzel, T., Stevens, A., Moreau, A., Tirrell, L., Varjabedian, A., **Vinke, L. N.**, Frosch, M.P., Schwamm, L.H., Greeberg, S.M., Wu, O., Wald, L.L., Perl, D.P., Fischl, B., Kinney, H.C., & Folkerth, R.D. (2014). Integration of Postmortem Neuroimaging and Histopathology to Determine the Neuroanatomic Basis for Recovery of Consciousness after Traumatic Coma. *MGH Clinical Research Day Symposium*.
9. Edlow, B.L., McNab, J.A., Witzel, T., van der Kouwe, A., Stevens, A., **Vinke, L. N.**, Ebling, M., Schwamm, L.H., Greenberg, S.M., Wu, O., Wald, L.L., Fischl, B., Kinney, H.C., & Folkerth, R.D. (2014). Integration of Advanced Imaging and Histopathology to Determine the Neuroanatomic Basis of Traumatic Coma and Recovery of Consciousness. *British Neuropathological Society Meeting*.
10. Baese-Berk, M., Dilley, L., Henry, M., **Vinke, L. N.**, Banzina, E., & Pitt, M. (2013). Distal speech rate influences lexical access. *Psychonomic Society Meeting*.
11. **Vinke, L. N.**, Dilley, L. C., Banzina, E., & Henry, M. J. (2009). Lexical perception and segmentation of words beginning with reduced vowels: A role for timing cues. *Psychonomic Society Meeting*.
12. Dilley, L. C., **Vinke, L. N.**, Banzina, E., & Patel, A. (2009). Does pitch processing in English have a musical basis? *Society for Music Perception and Cognition Meeting*.
13. Henry, M. J., **Vinke, L. N.**, Weinland, C., & Dilley, L. C. (2009). Duration and context speech rate as cues to lexical perception and word segmentation. *Acoustical Society of America Meeting*.
14. Dilley, L. C., Mattys, S., & **Vinke, L. N.** (2008). Distal prosodic effects in word segmentation and lexical access. *Psychonomic Society Meeting*.
15. **Vinke, L. N.** & McAuley, J. D. (2008). Effects of Tempo on the Perceived Complexity of Auditory Rhythms. *Auditory Perception, Cognition, and Action Meeting*.
16. **Vinke, L. N.** & McAuley, J. D. (2008). Effects of Musical Training and Tapping the Beat on Perceived Complexity of a Rhythm. *International Conference for Music Perception and Cognition*.

Presentations & Talks

1. "Luminance Response Functions in the Human Visual Cortex." Vinke, L. N. & Ling, S. *Vision Sciences Society Meeting*, St. Pete Beach, FL, May, 2018.
2. "How do we study memory in humans with non-invasive techniques." Vinke, L. N. *Psychology of Learning, Undergraduate Course Lecture*, Boston University, Boston, MA, April, 2017.
3. "Conditioning: Applications and Contemporary Research." Vinke, L. N. *Psychology of Learning, Undergraduate Course Lecture*, Boston University, Boston, MA, Feb., 2017.
4. "Investigating Luminance Modulation of Contrast Response in Human Visual Cortex." Vinke, L. N. *Neuroscience Student Seminar*, Boston University, Boston, MA, April, 2016.
5. "Introduction to FreeSurfer." Vinke, L. N., Player, A. S., Fischl, B. "*Why & How*" *Seminar Series*, Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown, MA, Nov., 2012.
6. "FreeSurfer: Analyzing the Individual Subject." Vinke, L. N., Player, A. S., Fischl, B. *FSL & FreeSurfer Course*, University of Auckland, Auckland, New Zealand, May, 2012.
7. "FreeSurfer : Analyzing the Individual Subject." Vinke, L. N., Player, A. S., Fischl, B. *Two-Week Multi-Modality Short Course*, Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown, MA, April, 2012.
8. "FreeSurfer : Failure Modes." Vinke, L. N., Player, A. S., Fischl, B. *Two-Week Multi-Modality Short Course*, Athinoula A. Martinos Center for Biomedical Imaging, MGH, Charlestown, MA, April, 2012.
9. "Introduction to FreeSurfer." Vinke, L. N., Player, A. S., Fischl, B. "*Why & How*" *Seminar Series*, Athinoula A. Martinos Center for Biomedical Imaging, MGH, Charlestown, MA, Feb., 2012.

Professional Experience

Graduate and Teaching Fellow <i>Visual Neuroscience Laboratory Boston University, Boston, MA</i>	<i>(PI: Sam Ling, PhD)</i>	2014 - Present
Research Technician <i>Laboratory for Computational Neuroimaging Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown, MA</i>	<i>(PI: Bruce Fischl, PhD)</i>	2010 - 2014
Research Assistant, Teacher Assistant, & Graduate Fellow <i>Rhythm, Attention and Perception Laboratory Bowling Green State University, Bowling Green, OH</i>	<i>(PI: J. Devin McCauley, PhD)</i>	2006 - 2010
Research Assistant and Undergraduate Fellow <i>Perception and Action Laboratory Rensselaer Polytechnic Institute, Troy, NY</i>	<i>(PI: Brett Fajen, PhD)</i>	2005 - 2006

Science Outreach

Brain Awareness Day – Presenter and Volunteer <i>Museum of Science, Boston, MA</i>		Spring 2015 / 2016 / 2019
Research in Science & Engineering (RISE) program - Presenter <i>Boston University, Boston, MA</i>		Summer 2018
Johns Hopkins University Center for Talented Youth (CTY) program - Presenter <i>Boston University, Boston, MA</i>		Fall 2017
Family Science Days - Exhibitor <i>American Association for the Advancement of Science Annual Meeting, Boston, MA</i>		Spring 2017
Summer Pathways in Science and Engineering - Presenter and Instructor <i>Boston University, Boston, MA</i>		Summer 2016
“Neuroscience: How does the brain work?” - Science Fair Presenter <i>Lincoln School, Brookline, MA</i>		Spring 2016