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| 215.688.1763 | | **Scientist** | [ktavabi@gmail.com](mailto:ktavabi@gmail.com) |
| **Research Engineer IV**   * Experienced principal investigator with 10+ years of scientific research and development in academia. * Hands-on expertise and collaborative skills in paradigm development and hypotheses testing. * Proficient driver of experimental protocol development, implementation and data collection. * Capable of exploratory and inferential statistical data analysis using full stack of scientific computing tools in python. * Versed in research result presentation and publishing. * Skilled in Federal and private sector research and development grant writing/submission and small team project management. | | | |
| **Expertise** | | | |
| Data analysis  Inferential statistics  Statistical learning  Digital signal processing | | Experimentation  Cognitive psychology  Speech perception  Language cognition | Scientific writing  Grant writing  Project Management |
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| **Tools & Technologies** | | | |
| **Languages:**  **Software:**  **Operating Systems:** | Bash, Python, R, MATLAB  Python Scientific Computing Stack, Adobe Creative Suite 1 to Creative Suite 6, Microsoft Office 95 to Office 2019  Windows NT, Windows, Mac OS, Linux | | |
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| **Work History** | | | |
| **Postdoctoral fellow**  Institute for Learning and Brain Sciences, Seattle, WA – 11/2011 – 04/2014  *Overseeing collaborative research projects focusing on auditory perception and language cognition during early childhood development and adolescence.*   * Grant writing * Project management * Paradigm development * Python   **Postdoctoral fellow**  Children’s Hospital of Philadelphia, Philadelphia, PA – 11/2008 – 09/2011  *Analyzed electrophysiological data for speech in young children with autism. Designed experimental paradigms for pre-operative mapping of brain function, and characterize language impairments in pediatric populations.*   * Preoperative mapping * Scientific writing * NIH LRP award recipient   **Visiting Scientist**  Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK – 08/2007 – 08/2008  *Developed experimental paradigm for studying psycholinguistic processes during speech perception.* | | | |
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| **Earlier Career** | | | |
| **Research Associate** – Department of Radiology, University of California, Los Angeles, CA, 2001 – 2002   * Relational database curation * Exploratory data analysis * HTML Website development and management   **Research Assistant** – Department of Psychiatry & Biobehavioral Sciences, University of California, Los Angeles, CA, 2001 – 2002   * Data collection * Microscopy | | | |
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| **Education & Certifications** | | | |
| **PhD**, University of Münster, Münster, Germany, 2007  **MSc**, University of Oregon, Eugene, OR, 2003  **BSc**, University of California Los Angeles, Los Angeles, CA, 2000 | | | |