SHANI SHALGI, PhD

RESUME

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I have a PhD in Cognitive Neuroscience (after a BSc in Computer Science) and am a proficient interdisciplinary researcher, able to learn and implement new technologies quickly and independently. I'm also a passionate hands-on software developer with several years of industry experience in delivering cutting edge ML related solutions to customers.

WORK EXPERIENCE

Jan 2019 – Currently: Stardat

- *Director of R&D.*
  Stardat is a fully funded startup company which is a subsidiary of UST Global, founded by me and two colleagues from the Fifth Dimension. Stardat is currently developing a product that brings explainability to ML models to the users of these models in the healthcare and finance industries.

Oct 2015 – Dec 2018: Fifth Dimension

- *Algorithms Researcher / Developer.*
  Researching and implementing deep learning and other ML algorithms. Specifically, I worked on text similarity and categorization, face tracking in videos and speaker assignment algorithms (Python & Java).

Apr 2014 – Sept 2015: InnerEye

- *Head of Neuroscience Research.*
  In charge of design, implementation and data analysis of all experiments, as well as design and implementation of InnerEye's EEG signal-processing platform (Matlab)

Oct 2004 – Sept 2006, Oct 2007 - Oct 2011: Hebrew University of Jerusalem

- *Lab Manager of Prof. Leon Deouell's Human Cognitive Neuroscience Laboratory.*
  Guiding and managing 7-12 PhD, MA and undergrad students and research assistants. Responsible for experiments, training and administration (hiring, coordinating experiments and activities, etc.).
- *Teaching Assistant in undergraduate courses: Introduction to Cognitive Neuroscience, Cognitive Seminar*.

Jan 2007- Sept 2007: Trinity College Dublin & Intel, Ireland

- *Researcher in the Cognitive Strand of Intel's Technology Research for Independent Living project.*
  Designed and implemented projects aimed to find electrophysiological markers for early cognitive decline in the elderly.

Oct 2003 – 2005: Hebrew University of Jerusalem

- *Chief Lab Programmer of Prof. Leon Deouell's Human Cognitive Neuroscience Laboratory*

  Programming experiments with high timing precision, and developed the analysis code base for the entire lab (Matlab & VB)

Jan 2002 – Oct 2003: Amdocs

- *R&D*
  Researched Speech Recognition technologies and new applications for Partner Relationship Management (Java)

1997: TTI - Team Telecom International

- *Software developer*

ARMY SERVICE

- **Jan 1998 – Oct 1999: IDF - Intelligence Unit 8200.** Served as chief programmer of my base.

EDUCATION

2013: Tel Aviv University

Postdoctoral fellow in Dr. Yuval Nir's Sleep Lab at the Sagol School of Neuroscience, Sackler Faculty of Medicine and Ichilov hospital. EEG Research Manager.

2006 -2012: Hebrew University of Jerusalem

PhD in Cognitive Science, supervised by Prof. Leon Deouell.
Thesis topic: Electrophysiological Indices of Error Awareness.

2006-2007: Trinity College, Dublin, Ireland

Visiting Research Fellow in Prof. Ian Robertson's Neuroscience Lab.
Involved in several EEG projects: Error awareness, synesthesia, sustained attention

2003 – 2005: Hebrew University of Jerusalem

MA in Cognitive Science, supervised by Prof. Leon Deouell. *Graduated Summa Cum Laude*.
Thesis topic: Mismatch Negativity and Competition for Spatial Location Deviance Detection.

1999 – 2002: Hebrew University of Jerusalem

BSc. Computer Science *with Honors*, average 93.18

AWARDS RECEIVED

- Received a full 4-year honors scholarship for PhD studies in 2007.
- Graduated my MA Cognitive Science Summa Cum Laude from the Hebrew University in 2006.
- Received the Rector Award for excellence in my first year of MA studies in 2004.
- Received a full honors scholarship for MA studies in 2003.
- Graduated my BA in Computer Science with honors from the Hebrew University in 2003.
- Dean's List for achievements in second year of undergraduate studies, 2001.

LANGUAGES

Hebrew & English (both as mother tongues, lived in Israel, Australia and Ireland)

COMPUTER SKILLS

- Programming Languages: Java, Python, Matlab, Visual Basic, C++
- Machine Learning (Python using Gensim, Scikit-learn, Keras, some experience with Torch)
- Internet Technologies: JavaScript, Dash, HTML+CSS (experience in website design and graphics)
- Databases and Tools: Oracle (proficient in SQL), ElasticSearch, Spark, MongoDB
- Graphics and Editing: Adobe Photoshop, Illustrator, Premier Pro

INTERESTS AND ACTIVITIES

- Photography, video editing, acting, directing.

PUBLICATIONS

- Mudrik L., **Shalgi S.,** Lamy D., Deouell L.Y. (2014) Synchronous contextual irregularities affect early scene processing: replication and extension. Neuropsychologia, 56, 447-58.
- **Shalgi S.** & Deouell L.Y. (2013) Is there any electrophysiological evidence for subliminal error processing? Frontiers in Neuroscience, 7, doi: 10.3389/fnins.2013.00150
- **Shalgi S.,** Deouell L.Y. (2012) Is any awareness necessary for an Ne? Frontiers in Human Neuroscience, 6 (Special Issue on Error Awareness), doi: 10.3389/fnhum.2012.00124
- Smigasiewicz K., **Shalgi S**., Hsieh S., Möller F., Jaffe S., Chang C. C. & Verleger R. (2010) Left visual-field advantage in the dual-stream RSVP task and reading-direction: a study in three nations. Neuropsychologia 48(10), 2852-60
- **Shalgi S.,** Barkan, I., Deouell L.Y. (2009) On the positive side of error processing: error-awareness positivity revisited. European Journal of Neuroscience, 29 (7), 1522-1532
- Barnett, J. K., Foxe, J. J., Molholm, S., Kelly, S.P., **Shalgi S.,** Mitchell K. J. & Newell F. N. (2008) Differences in early sensory-perceptual processing in synesthesia: a visual evoked potentials study. *NeuroImage*, 43(3), 605-13
- **Shalgi S.,** O'Connell R. G., Deouell, L.Y., Robertson, I. (2007) Absent Minded but Accurate: Delaying responses increases Accuracy but decreases Error Awareness. Experimental Brain Research, 182(1):119-24.
- **Shalgi S.,** Deouell L.Y. (2007) Direct Evidence for Differential Roles of Temporal and Frontal Components of Automatic Change Detection. *Neuropsychologia*, 45(8), 1878-88