Edin Sabic, Ph.D.

cibasnide@gmail.com – (515)745-1135 – edinsabic.com – linkedin.com/in/edin-sabic/

EDUCATION

New Mexico State University, Las Cruces, NM — August 2015 – May 2020
Ph.D., Experimental Psychology

The University of Iowa, Iowa City, IA — August 2010 – May 2014
B.A., Psychology and German

SKILLS

❖ Statistical Analysis (ANOVA, regression, hierarchical linear models) ❖ SPSS
❖ Experimental Design ❖ Python ❖ Survey Analysis/Design ❖ R ❖ Tableau
❖ Quantitative/Qualitative Data Analysis ❖ Public Speaking ❖ Interviewing

EXPERIENCE

Director of Research — Las Cruces, New Mexico
Electronic Caregiver — April 2020 – Present

- Led and supervised a team of healthcare analysts and researchers
- Spearheaded domestic and international product research studies
- Translated business problems and questions into testable hypotheses
- Defined User Experience (UX) standards and methods for product evaluation
- Delivered research findings and strategies to stakeholders and collaborators

Junior Data Scientist — Las Cruces, New Mexico
Electronic Caregiver — March 2019 – March 2020

- Analyzed questionnaire and interview data to produce UX reports
- Conducted machine learning research using Python (scikit-learn, pandas)
- Designed research protocols for evaluating product usability and experience

User Experience Research Intern — Moline, Illinois
John Deere, Research & Development — April 2018 – August 2018

- Defined and executed UX research concerning semi-autonomous vehicles
- Orchestrated semi-structured interviews with subject-matter experts

NSF and NIH Grant Researcher — Las Cruces, New Mexico
New Mexico State University — August 2016 – May 2020

- Managed 10+ time-sensitive human factors and perception research studies
- Programmed experiments and analyzed data using Python, SPSS, MATLAB

Research Assistant — Iowa City, Iowa
U.S. Department of Veterans Affairs/PreACT Lab — September 2014 – May 2015

LANGUAGES **English:** Native **German:** Intermediate **Croatian**: Intermediate

SELECT PUBLICATIONS

Chen, J., **Šabić**, E., Mishler, S., Parker, C., & Yamaguchi, M. (2020). Effectiveness of lateral auditory collision warnings: should warnings be toward danger or toward safety? *Human Factors*. doi: 10.1177/0018720820941618

Šabić, E., Keeley, D., Henderson, B., Nannemann, S. (2020). Healthcare and anomaly detection: using machine learning to predict anomalies in heart rate data. *AI & Society*. doi: https://doi.org/10.1007/s00146-020-00985-1.

Šabić, E., Henning, D., Myuz, H., Morrow, A., Hout, M.H., & MacDonald, J. A. (2020). Examining the role of eye movements during conversational listening in noise. *Frontiers in Psychology*, *11*, 200. doi: 10.3389/fpsyg.2020.00200

Šabić, E., Chen, J., & MacDonald, J. A. (2019). Towards a better understanding of in-vehicle auditory warnings and background noise. *Human Factors*. doi: 10.1177/0018720819879311.

Šabić, E., Henning, D., & MacDonald, J. (2019, October). Adaptive Auditory Alerts for Smart In-Vehicle Interfaces. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 63, No. 1, pp. 1545-1549). Sage CA: Los Angeles, CA: SAGE Publications.

Karapetrović, J., **Šabić**, E., & Dugas, D. V. (2019, July). Community Outreach and the Discovery HPC Cluster: An Analysis of User Profiles and Growth: In *Proceedings of the Practice and Experience in Advanced Research Computing on Rise of the Machines (learning)* (p. 98). ACM.

Šabić, E., & Chen, J. (2017, September). Left or Right: Auditory Collision Warnings for Driving Assistance Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 61, No. 1, pp. 1551-1551). Sage CA: Los Angeles, CA: SAGE Publications.

Šabić, E., Mishler, S., Chen, J., & Hu, B. (2017, May). Recognition of Car Warnings: An Analysis of Various Alert Types. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems* (pp. 2010-2016). ACM.

Šabić, E., & Chen, J. (2016, September). Threshold of Spearcon Recognition for Auditory Menus. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 1539-1543). Sage CA: Los Angeles, CA: SAGE Publications.

Hadlandsmyth, K., **Šabić**, E., Zimmerman, M.B., Sluka, K. A., Herr, K. A., Clark, C. R., … & Rakel, B. A. (2016). Relationships among pain intensity, pain-related distress, and psychological distress in pre-surgical total knee arthroplasty patients: a secondary analysis. *Psychology, Health & Medicine*, 1-12.