Shan Gao

shangao2022@foxmail.com 15513172234 Engineering Psychology / Human Factors

Education & Awards

2022.4 – 2026.6, Lab of Human Factors in Aviation, Civil Aviation University of China. Ph.D. student

2021.7 – 2022.3, Center for Psychological Sciences, Zhejiang University. Research Assistant

2018.9 – 2021.6, College of Flying Technology, Civil Aviation University of China. Master Student

- Outstanding Student of Tianjin (2020), Excellent Graduate Award (2021), Outstanding Master's Dissertation Award (2021).
- Postgraduate National Scholarship (2020), Boing Scholarship (2020), Postgraduate Academic Scholarship (First-class) (2020).

2014.9 – 2018.6, College of Safety Science and Engineering, Taiyuan University of Technology. Undergraduate

- Science and Technology Practice Scholarship (2015)

Projects

- Tianjin Graduate Research and Innovation Project (No. 2022BKY150), Research on acceptable risk in Single Pilot Operations (SPO), **Principal**, 2023-2024.
- Tianjin Graduate Research and Innovation Project (No. 2019YJSS068), Study on risky identification and portrait method of airline pilots, **Principal**, 2019-2020.
- National Natural Science Foundation of China (No. 32071063), Research on characteristics and formation mechanism of airline pilots' risky behavior, Participant, 2021-2024.
- National Natural Science Foundation of China (No. U1733117), Study on personality and operational characteristics identification of risky pilots, Participant, 2018-2020.

Papers

[1]. **Gao, S.**, & Wang, L. (2023). More experience might not bring more safety: Negative moderating effect of pilots' flight experience on their safety performance. International Journal of Industrial Ergonomics, 95, 103430.

[2]. Wang, L., **Gao, S.**, Tan, W., & Zhang, J. (2023). Pilots' mental workload variation when taking a risk in a flight scenario: a study based on flight simulator experiments. International journal of occupational safety and ergonomics, 29(1), 366-375.

[3]. Zhai, S., **Gao, S.**, Wang, L., & Liu, P. (2023). When both human and machine drivers make mistakes: Whom to blame?. Transportation Research Part A: Policy and Practice, 170, 103637.

[4]. **Gao, S.**, & Wang, L. (2020). Effects of mental workload and risk perception on pilots' safety performance in adverse weather contexts. In: International Conference on Human-Computer Interaction, Copenhagen, Denmark, pp. 278-291.

[5]. Wang, L. & **Gao, S**. (2020). Study on eye movement and physiological characteristics of flying risk-taking behaviors. China Safety Science Journal, 30(09): 22-28.

[6]. Wang, L. & **Gao, S**. (2021). Research on evaluation of exceedance behaviors of airline transport pilots based on QAR data. Journal of Safety and Environment, 30(09): 22-28.

Conferences

- HCII 2020, the 22nd International Conference on Human-Computer Interaction, held virtually from 19-24 July 2020 (**Presenter**)
- The 4th COMAC International Technological Innovative Week，Shanghai，2020.9.21-2020.9.25 (**Poster**)
- The 9th Annual Meeting of the Risk Analysis of China Disaster Defense Association, Tianjin, 2020.10.24-2020.10.25（**Presenter**）