

Shan Gao

College of Safety Science and Engineering
Civil Aviation University of China

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Human Factors

Research interest

Human Factors; Human-Computer Interaction; Safety Engineering; Trust in Autonomy; Ergonomics; Human-Centered Design; Ageing; Flight Training; Accident Analysis; Psychophysiology; Aviation Psychology; Individual Differences; Decision-making; Risk-Taking Behavior

Education

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|-----------------|---|------------------------------------|----------------|
| 2022.4 – 2026.6 | College of Safety Science and Engineering | Civil Aviation University of China | Ph.D. student |
| 2018.9 – 2021.6 | College of Safety Science and Engineering | Civil Aviation University of China | Master student |
| 2014.9 – 2018.6 | College of Safety Science and Engineering | Taiyuan University of Technology | Undergraduate |

Project

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|-----------|--|-------------|------------------|
| 2023-2024 | Tianjin Graduate Research and Innovation Project | 2022BKY150 | Principal |
| 2021-2024 | National Natural Science Foundation of China | 32071063 | Participant |
| 2019-2020 | Tianjin Graduate Research and Innovation Project | 2019YJSS068 | Principal |

Publication

- [1]. Wang, L., **Gao, S.**, Hong, R. & Jiang Y. (2023). Effects of age and flight exposure on flight safety performance: Evidence from a large cross-sectional pilot sample. *Safety Science*, 165, 106199.
- [2]. **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.
- [3]. 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.
- [4]. 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.
- [5]. **Gao, S.**, Xian, Y. and Wang, L. (2023). An evaluation framework on pilot's competency-based flying style. In the 25th International Conference on Human-Computer Interaction, Copenhagen, Denmark. (accept)
- [6]. **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.
- [7]. 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.
- [8]. 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.

Conference

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

Professional experience

Research Assistant, Center of Psychological Sciences

2021-2022

PI: Prof. Peng Liu, Zhejiang University

Project 1: Responsibility Attribution in Human-Computer Interaction

Project 2: Trust in Automation

Project 3: Emerging Technology Acceptance

Research Intern, Okair Airline – Civil Aviation University of China simulator center

2019

Project: Flight Operations and Experiment Design

Professional service

Reviewer

Safety Science

2021 - Present

Updated: 5/20/2023