

# Aviation Human Factors

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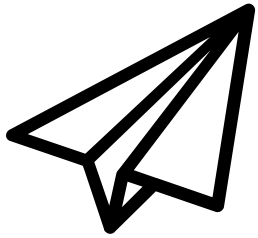
# Aviation has unique characteristics that pose challenges in human factors research



System = **Pilot** + Aircraft + Environment

- Pilot personality
- Highly skilled with specialized training
- High-risk environment
- Mental workload
- Rarity of events
- Single crew vs multi crew

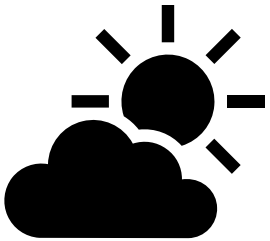
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System = Pilot + **Aircraft** + Environment

- System complexity
- Automation
- Different flavors of aviation: sport vs mode of transport
- Variation in systems

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System = Pilot + Aircraft + **Environment**

- Variable
- Adds to workload
- Stressors depend on operations
- Engages (or overwhelms) most senses