

Grant Deliverables and Reporting Requirements for UTC Grants (November 2016)

**EXHIBIT F**

<b>UTC Project Information</b>	
Project Title	Mask-Wearing Behaviors in Air Travel During Coronavirus Pandemic – An Extended Theory of Planned Behavior Model
University	Embry-Riddle Aeronautical University
Principal Investigator	Jing Yu Pan
PI Contact Information	<a href="mailto:panj@erau.edu">panj@erau.edu</a> (386)852-8390
Funding Source(s) and Amounts Provided (by each agency or organization)	Federal funds: \$ 41,866 Embry-Riddle Aeronautical University matching funds: \$20,933
Total Project Cost	\$62,799
Agency ID or Contract Number	69A3551747125
Start and End Dates	January 1, 2021 – May 31, 2022
Brief Description of Research Project	<p>Significant growth in air traffic is anticipated for the upcoming years. While air travel enables efficient transportation all over the world, it also brings risks. Exposure to disease is an important one of them. Research shows that air transportation is a likely vehicle for the rapid spread and dissemination of infectious disease. Some studies have been conducted to identify effective measures to prevent the disease from spreading in air travel during pandemics. While measures such as isolation, personal hygiene, and public education were found to be effective, other measures especially mask-wearing and its effect have not been understood fully. Particularly, there is an important research gap in the understanding of the intention of airline passengers to wear face masks during pandemics. The purpose of this study is to identify factors that affect mask-wearing behaviors of airline passengers onboard an airplane during the Covid-19 pandemic. The theory of planned behavior (TPB) will be used for model development to examine the relationship between multiple constructs such as attitude, social norms, and control-related factors and the intention to wear masks in an airline cabin</p>

	environment. A self-administered survey will be conducted to collect empirical data from airline passengers in the US. A structural equation modeling approach will be used to quantitatively analyze the data. The findings will enhance the understanding of the major factors underlying air travelers' intentions to wear masks during flight. Theoretical and practical implications of the findings will be provided.
Describe Implementation of Research Outcomes (or why Not implemented)  Place Any Photos Here	Airlines can use the findings of this study to further understand passenger needs and develop suitable strategies to ensure safe flights during a global pandemic. The US government can use the findings of this study for policy making to better promote public health.
Impacts/Benefits of Implementation (actual, not anticipated)	Enhance the understanding of passengers' mask-wearing intentions and behaviors which can inform both the industry and government in developing guidelines and strategies to ensure travel safety during pandemics
Web Links <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project Website</li> </ul>	N/A



**U.S. Department of Transportation**  
**Office of the Secretary of Transportation**