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| **UTC Project Information** | |
| Project Title | MPC-613 – Behavior of Composite-Strengthened Concrete Bridge Members under Multi-Hazard Loadings |
| University | University of Colorado Denver |
| Principal Investigator | Yail Jimmy Kim |
| PI Contact Information | Professor  University of Colorado Denver  Phone: (303) 315-7497  Email: jimmy.kim@ucdenver.edu  ORCID: 0000-0002-4286-1461 |
| Funding Source(s) and Amounts Provided (by each agency or organization) | USDOT, Office of the Assistant Secretary for Research and Technology  $40,000  Faculty time and possible external scholarship/support awarded to participating individuals  $40,000 |
| Total Project Cost | $80,000 |
| Agency ID or Contract Number | 69A3551747108 |
| Start and End Dates | February 18, 2020 to July 31, 2022 |
| Brief Description of Research Project | The proposed research aims to investigate the ramifications of multi-hazard loadings on the performance of fiber reinforced polymer (FRP)-strengthened and -reinforced concrete members. An experimental program will be conducted to study the behavior of carbon FRP (CFRP)-strengthened concrete girders exposed to thermal and mechanical loadings. A numerical study will also be carried out to comprehend the implications of deicing salts in conjunction with traffic loadings on the behavior of a full-scale bridge, including microscopic corrosion propagation and macroscopic responses. |
| Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here |  |
| Impacts/Benefits of Implementation  (actual, not anticipated) |  |
| Web Links   * Reports * Project Website |  |