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| **UTC Project Information** | |
| Project Title | MPC-536 – Development of Age and State Dependent Stochastic Model for Improved Bridge Deterioration Prediction |
| University | Colorado State University |
| Principal Investigator | Gaofeng Jia |
| PI Contact Information | Assistant Professor  Colorado State University  Phone: (970) 491-6580  Email: gjia@colostate.edu  ORCID: 0000-0001-9419-8481 |
| Funding Source(s) and Amounts Provided (by each agency or organization) | USDOT, Research and Innovative Technology Administration  $53,000  Faculty time and effort and faculty start-up funds  $53,000 |
| Total Project Cost | $106,000 |
| Agency ID or Contract Number | 69A3551747108 |
| Start and End Dates | November 2, 2017 to July 31, 2024 |
| Brief Description of Research Project | Reliable and accurate assessment and prediction of the condition deterioration of bridges is critical for effective bridge preservation, which can help extend the service life of bridges. Bridge inspection serves as an important task in assessing the current condition of bridges. The inspection data over time can also help establish condition deterioration models to predict bridge conditions in the future. The deterioration models combined with the information on the current condition can help guide inspection, maintenance, repair, and rehabilitation planning, and can also be incorporated for risk and life-cycle analysis. Therefore, it is very important to develop deterioration models that can better predict the condition deterioration of bridges and bridge elements. |
| 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 |  |