**Subasish Das, Ph.D.**

Associate Research Scientist

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**EDUCATION**

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| --- | --- |
| Ph.D. | Systems Engineering (Civil Engineering Focus), University of Louisiana at Lafayette, LA (2015)  Dissertation: *“Effectiveness of Inexpensive Crash Countermeasures to Improve Traffic Safety”* |
| M.S. | Mathematics (Major in Statistics), University of Louisiana at Lafayette, Lafayette, LA (2015)  (completed required 36 semester hour course works) |
| M.S. | Civil Engineering, University of Louisiana at Lafayette, Lafayette, LA (2012)  Thesis: *“Evaluating Safety Improvement from Edge Lines on Rural Two-lane Highways”* |
| B.Sc. | Civil Engineering, Bangladesh University of Engineering & technology, Dhaka (2007)  Thesis: *“Scope of Intelligent Transportation Systems in the Developing Countries”* |

**EXPERIENCE**

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| 2021- | TTI Associate Research Scientist, Texas A&M Transportation Institute, College Station, TX |
| 2021- | Graduate Committee Faculty, Texas A&M University, College Station, TX |
| 2020-2021 | TTI Assistant Research Scientist, Texas A&M Transportation Institute, College Station, TX |
| 2015-2020 | Associate Transportation Researcher, Texas A&M Transportation Institute, College Station, TX |
| 2014-2015 | Research Associate, University of Louisiana at Lafayette, LA |
| 2013-2014 | Teaching Assistant, University of Louisiana at Lafayette, LA |
| 2010-2012 | Research Assistant, University of Louisiana at Lafayette, LA |
| 2008-2009 | Quantity Surveyor, Hennessey LLC, Dubai, U.A. E. |
| 2007-2008 | Project Engineer, Mak Estate Developments, Dhaka, Bangladesh |

**AWARDS**

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| --- | --- |
| 2018 | Texas A&M Transportation Institute (TTI) Young Researcher Award |
| 2017 | Best of Urban Street Symposium Award: TRB 5th Urban Street Symposium |
| 2016 | Atlas/TTI Competitive Research Program Award |
| 2015 | Eno Leadership Development Fellow |
| 2015 | Gulf Region ITS (GRITS) Scholarship |
| 2015 | Best Paper Award (2nd Place) in University of Louisiana Graduate Research STEM Core |
| 2015 | Data Incubator Data Science Fellowship Semi-finalist |
| 2014 | 2014 SASHTO Outstanding Graduate Research Award |
| 2014 | 2014 AASHTO High Value Research Sweet Sixteen Award |
| 2013 | 2013 Gulf Region ITS (GRITS) Scholarship First Place Award |
| 2012 | Travel award for 9th Postgraduate Academic Forum of Beihang University, China |
| 2012 | University of Louisiana Engineering Designing Leader |
| 2011-2014 | Deep South Institute of Transportation Engineers Scholarship |

**LICENSES/CERTIFICATES**

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| --- | --- |
| 2016 | Reasoning, Data Analysis, and Writing Specialization Certificate, Duke University |
| 2014 | Data Science Specialization Certificate, John Hopkins University |

**PROFESSIONAL SERVICE ACTIVITIES**

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| --- | --- |
| 2019-2020 | Member, Association of Pedestrian and Bicycle Professionals (APBP) |
| 2015-2016 | Vice Chair for Membership, Young Professionals in Transportation (YPT) Houston Chapter |
| 2014- | Member, Gulf Region Intelligent Transportation Society |
| 2012- | Associate Member, American Society of Civil Engineers (ASCE) |
| 2011- | Member, Institute of Transportation Engineers (ITE) |

**COMMITTEE MEMBERSHIPS**

**Transportation Research Board**

|  |  |
| --- | --- |
| 2021-2023 | Panel Member, ACRP 11-03/Topic S03-16: State Aviation Funding: Project Prioritization and Selection Processes |
| 2021-2023 | Panel Member, NCHRP 08-141: Guidance for Local Truck Parking Regulations |
| 2020-2023 | Member, Information and Knowledge Management (AJE45) |
| 2020-2023 | Member, Artificial Intelligence and Advanced Computing Applications (AED50) |
| 2019-2021 | Member, Impairment in Transportation (ACS50) |
| 2016-2020 | Member, Library and Information Science for Transportation (ABG40) |
| 2019-2021 | Member, Data-Driven Safety Analysis (DDSA) Sub-committee |
| 2019-2021 | Panel Member, NCHRP 23-03: Targeted Guidance and Information Support to State DOT CEOs on Cybersecurity Issues and Protection Strategies |
| 2018-2021 | Panel Member, NCHRP 08-120: Initiating the Systems Engineering Process for Rural Connected Vehicle Corridors |

**SERVICE**

* Editor, ***IATSS Research***, Elsevier.
* Handling Editor, ***Transportation Research Record: Journal of the Transportation Research Board***, Sage Journals.
* Academic Editor, ***PLOS One***
* Associate Editor, ***Frontiers in Future Transportation***
* Area Editor (Highway Safety & Crash Data Analysis), ***Journal of Transportation Safety & Security***, Taylor & Francis.
* Editorial Board Member, ***Transportation Research Interdisciplinary Perspectives***, Elsevier.
* Committee Member, The 7th International Conference on Geology Resource Management and Sustainable Development (ICGRMSD2019), December 28-29, 2019, Beijing, China
* Reviewer: ***Accident Analysis and Prevention; Nature Energy; Transportation Research Part C: Emerging Technologies; Journal of Safety Research; Cities; Transportmetrica A: Transportation Science.***
* Treasurer, ITE Student Chapter, University of Louisiana at Lafayette

**RESEARCH PROJECTS (As PI/Co-PI) [As PI: $2.1 million; As Co-PI=$2.0 million]**

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| 2022-2024 | **(PI)** Develop a Real-Time Decision Support Tool for Urban Roadway Safety Improvements. TxDOT Project. ($470,000.00) [with Texas Southern University. Budget: $25,000] |
| 2022-2024 | **(PI)** Developing SPFs for Arizona.ADOT Project. ($400,000.00) |
| 2022-2024 | **(Co-PI)** Using Vehicle Probe Data to Evaluate Speed Limits on Texas Highways. TxDOT Project. ($400,000.00) |
| 2021-2023 | **(PI)** Developing AI-driven Safe Navigation Tool. SafeD UTC. ($330,000.00) |
| 2021-2023 | **(PI)** Leveraging Artificial Intelligence (AI) Techniques to Detect, Forecast, and Manage Freeway Congestion ($310,000.00) [with Texas Southern University. Budget: $25,000] |
| 2020-2022 | **(PI)** Autonomous Delivery Vehicle as a Disruptive Technology: How to Shape the Future with a Focus on Safety? SafeD UTC. ($2,300,000.00 [Matching fund: $2,000,000.00]) |
| 2019-2023 | **(PI)** Safety Enhancements at Short-Storage-Space Railroad Crossings, Michigan DOT Project. ($110,000.00) |
| 2020-2021 | **(PI) TCRP Synthesis** SB-33: Uses of Social Media in Public Transportation.National Academies *($45,000.00).* |
| 2019-2021 | **(PI)** Develop a Real-Time Decision Support Tool for Rural Roadway Safety Improvements. TxDOT Project. ($300,000.00) |
| 2019-2021 | **(PI)** Develop Speed Crash Modification Factors (CMFs) from SHRP-2 Data. FHWA Project. ($189,891.00) |
| 2019-2021 | **(Co-PI)** Use of Disruptive Technologies to Support Safety Analysis and Meet New Federal Requirements, SafeD UTC. ($1,601,000.00 [Matching fund from StreetLight Data: $1,425,000.00]) |
| 2019 | **(PI)** Innovative Data Sources for Real-time Crash Prediction. SafeD UTC Project. *($20,000.00).* |
| 2019-2020 | **(Co-PI)** **NCHRP 20-07 (Task 384):** Core Competencies for Key Safety Training. National Academies Project. *Role: Co-Principal Investigator* *($75,000.00).* |
| 2018-2019 | **(PI)** Transportation Safety Planning Noteworthy Practices. FHWA Project. *($30,000.00)* |
| 2018-2019 | **(PI)** Rural Speed Safety Project for USDOT Safety Data Initiative. FHWA Project. *($240,000.00).* |
| 2018-2020 | **(Co-PI)** Louisiana’s Alcohol-Impaired Driving Problem: An Analysis of Crash and Cultural Factors. LADOTD Project. *($175,000.00).* |
| 2017-2019 | **(Co-PI)** **NCHRP 14-40:** Comparison of Cost, Safety, and Environmental Benefits of Routine Mowing and Managed Succession of Roadside Vegetation. National Academies Project. *($300,000.00).* |
| 2016 | **(PI)** Safety Impacts of Reduced Visibility in Inclement Weather. Atlas TTI Competitive Research Project; *($44,000.00).* |
| 2016 | **(PI)** Improper Passing-Related Crashes on Rural Roadways. TTI Strategic Research Project; *($21,000.00).* |
| 2016 | **(Co-PI)** Urban Roadway Fatality Analysis. TTI Research Project; *($30,000.00).* |
| 2015 | **(Co-PI)** User Sentiment Analysis with Louisiana Social Media Data for Better and Effective Crash Countermeasures. LTRC TIRE Project; *($30,000.00).* |

**Key Researcher**

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| --- | --- | --- |
| 48 | 2021-2023 | **NCHRP 07-30:** Methods for Assigning Short-Duration Traffic Volume Counts to Adjustment Factor Groups for Estimating AADT |
| 47 | 2021-2022 | **NCHRP 17-71A**: Proposed AASHTO Highway Safety Manual, Second Edition, National Academies. |
| 46 | 2020-2023 | **NCHRP 15-76**: Designing for Target Speed, National Academies. |
| 45 | 2020-2022 | Develop Highway Safety Manual (HSM) Safety Performance Functions (SPFs) and Calibration Factors for Texas, TxDOT Project. |
| 44 | 2019-2022 | Enhancing Freeway Safety Prediction Models. TxDOT Project. |
| 43 | 2019-2022 | Improving and Communicating Speed Management Practices. TxDOT Project. |
| 40 | 2019-2022 | Examine Trade-off between Centerline Separation and Shoulder Width Allotment. TxDOT Project. |
| 39 | 2019-2022 | **NCHRP 03-134**: Determination of Encroachment Conditions in Work Zones |
| 38 | 2019-2024 | **NCHRP 17-92**: Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures. |
| 37 | 2019-2023 | ELCSI-PFS, Phase XI, Safety Evaluations of Mini-Roundabouts and Wrong Way Driving Improvements, FHWA. |
| 36 | 2019 | Using Machine Leaning Tools to Identify Pedestrian Crash Types. TTI |
| 34 | 2019-2022 | **NCHRP 06-18**: Guide for Snow and Ice Control Operations |
| 32 | 2019-2023 | Pre-Crash Modification Factors Study for Curb Extensions and Bicycle Specific Intersection Markings, FHWA |
| 31 | 2018-2021 | Traffic Safety Improvements at Low Water Crossings, TxDOT. |
| 30 | 2018-2020 | Evaluation of Roadside Treatments to Mitigate Roadway Departure Crashes, TxDOT. |
| 29 | 2018-2021 | Development of Pedestrian Intersection Crash Modification Factors, FHWA project. |
| 28 | 2018-2022 | **NCHRP 05-24**: Guidelines for Vehicle and Equipment Color, Marking, and Lighting. |
| 27 | 2018-2022 | **NCHRP 14-41**: Permanent Vegetation Control Treatments for Roadsides. |
| 26 | 2018 | Evaluation of Bicycle and Pedestrian Monitoring Equipment to Establish Collection Database/Methodologies for Estimating Non-Motorized Transportation. TxDOT project. |
| 25 | 2017-2019 | Collection and Estimation of Annual Average Daily Traffic (AADT) on Lower-Volume Roads. FHWA Project. |
| 23 | 2017-2019 | Identifying Infrastructure-Based Motorcycle Crash Countermeasures – Phase I. FHWA project. |
| 22 | 2017-2019 | Evaluation of Safety Improvement Projects and Countermeasures. TxDOT project. |
| 21 | 2017-2019 | Knowledge Extraction using Natural Language Processing from Farm Equipment related Crash Narratives. NIOSH project. |
| 20 | 2017-2019 | Development of Crash Modification Factors for Different Separated Bike Lane (SBL) Configurations. FHWA project. |
| 19 | 2017-2019 | CV Pilot Deployment and Program Evaluation– Planning for SMEE Assessment of Smart Columbus Program. FHWA project. |
| 18 | 2017-2018 | Influences on Bicyclists and Motor Vehicle Operating Speed within a Corridor. UTC Project. |
| 17 | 2017 | Measuring Automated Vehicle Safety. TTI project |
| 16 | 2017 | Transit Automation Tech Reviews. Volpe. |
| 15 | 2016-2020 | Field Evaluation of At-Grade Alternative Intersection Designs. FHWA project. |
| 14 | 2016-2019 | Technical Support for Focus Approach to Roadway Departure (RwD) Safety. FHWA project. |
| 13 | 2016-2019 | Pedestrian and Bike Scalable Risk Assessment Methodology (ScRAM). FHWA project. |
| 12 | 2016-2018 | **NCHRP 17-76**: Guidance for the Setting of Speed Limits. |
| 10 | 2016 | Safety Performance of Truck Lane Restrictions in Dallas-Fort Worth. TTI Research project. |
| 9 | 2016 | Analysis of the Shoulder Widening need on the State Highway System. TxDOT project. |
| 8 | 2016 | Is Age a Factor in Crashes at Channelized Right-Turn Lanes? An Exploration of Potential Relationships. Atlas Research project. |
| 7 | 2015 | User Sentiment Analysis with Louisiana Social Media Data for Better and Effective Crash Countermeasures. LTRC 2014 TIRE Award project. |
| 6 | 2015 | Developing a method for estimating AADT on all Louisiana roads. Louisiana DOT project. |
| 5 | 2013-2014 | A Comprehensive Study on Pavement Edge Line Implementation. Louisiana DOT project. |
| 4 | 2012 | Safety Improvement from Edge Lines on Rural Two-Lane Highways. Louisiana DOT project. |
| 3 | 2012 | Developing Inexpensive Crash Countermeasures for Louisiana Local Roads.Louisiana DOT project. |
| 2 | 2011 | Mining Potentially Interesting Positive and Negative Association Patterns from Traffic Safety Data. LTRC 2011 TIRE Award project. |

**PUBLICATIONS**

**Research Reports**

|  |  |  |
| --- | --- | --- |
| 29 | 2022 | Dixon, K. NCHRP Report 995: Opposite Direction Crashes. National Academies. |
| 28 | 2022 | **Das, S.,** N. Trisha, I. Sener, and M. Walk. TCRP Synthesis 156: Uses of Social Media in Public Transportation. National Academies. |
| 27 | 2022 | **Das, S.,** K. Fitzpatrick, L. Wu, Z. Wei, I. Tsapakis, S. Paal, S. Geedipally, and E. Park. Develop a Real-Time Decision Support Tool for Rural Roadway Safety Improvements. TxDOT Project. Final Report. |
| 26 | 2022 | Geedipally, S., M. Brewer, R. Wunderlich, M. P. Pratt, L. Wu, **S. Das**, and D. Florence. Examine Trade-Offs between Center Separation and Shoulder Width Allotment for a Given Roadway Width. TxDOT Project Report. |
| 25 | 2021 | I. Tsapakis, W. Holik, S. Das, E. Kraus, and P. Anderson. Informational Guide on Data Collection and Annual Average Daily Traffic (AADT) Estimation for Non-Federal Aid-System (NFAS) Roads |
| 24 | 2021 | C. Dobrovolny, K. Balke, R. Bligh, S. Hurlebaus, S. Shi, A. Pike, **S. Das**, H. Charara, and C. Mott. Evaluation of Traffic Safety Improvements at Low Water Crossings. TxDOT Project Report. |
| 23 | 2021 | Dixon, K., **S. Das**, and I. Potts. National Cooperative Highway Research Program (NCHRP) 20-07 (384): Core Competencies for Key Safety Analysis. National Academies. |
| 22 | 2021 | Fitzpatrick, K., R. Avelar, M. Pratt, **S. Das**, and D. Lord. Crash Modification Factor for Corner Radius, Right-Turn Speed, and Prediction of Pedestrian Crashes at Signalized Intersections. FHWA Report. |
| 21 | 2020 | Fitzpatrick, K., **S. Das**, T. J. Gates, E. S. Park, M. P. Pratt, K.K. Dixon, J. Kay, M. Chakraborty. Development of the Posted Speed Limit Setting Procedure and Tool, Web-Only **NCHRP 17-76 Report**. |
| 20 | 2020 | McFalls, J., B. Storey, S, Das, and J. Haberman. Permanent Vegetation Control Treatments for Roadsides. Web-Only **NCHRP 14-41 Report** (in press). |
| 20 | 2020 | Dixon, K., S. Geedipally, E. Park, R. Srinivasan, B. Lan, M. Brewer, **S. Das**, L. Wu, C. Zegeer, and E. Rista. Guidance for Selection of Appropriate Countermeasures for Opposite Direction Crashes. **NCHRP 17-66 Report**. |
| 19 | 2020 | Avelar, R., S. Geedipally, **S. Das,** L. Wu, and B. Kutela. Evaluation of Roadside Treatments to Mitigate Roadway Departure Crashes, TxDOT Report. |
| 18 | 2020 | **Das, S.,** R. Avelar, S. Geedipally, L. Wu, D. Lord, and M. Banihashemi. Rural Speed Safety Project for USDOT Safety Data Initiative (SDI), USDOT Report. |
| 17 | 2019 | Tsapakis, I., S. Sharma, S. Geedipally, B. Dadashova, and **S. Das**. Evaluation of Highway Safety Improvement Projects and Countermeasures. TxDOT Report. |
| 16 | 2018 | Turner, S., …. **S. Das**, …. Guide for Scalable Risk Assessment Methods for Pedestrians and Bicyclists. FHWA Report. |
| 15. | 2018 | Turner, S., B. Dadashova, G. Griffin, and **S. Das**. Improving the Amount and Availability of Pedestrian and Bicyclist Count Data in Texas. TxDOT Report. |
| 14 | 2018 | Fitzpatrick, K., and S. Das. Influences on Bicyclists and Motor Vehicle Operating Speed within a Corridor. SafeD UTC Project Report. |
| 13 | 2018 | Pratt, M., S. Geedipally, **S. Das**, and D. Lord. Pavement Safety-based Guidelines for Horizontal Curve Safety. TxDOT Report. |
| 12 | 2018 | Mensar, M., Trueblood, A., Shipp, E., and **S. Das**. MCCS Data Analysis and Literature Review. FHWA Project Report. |
| 11 | 2017 | **Das, S.**, B. Brimley, and A. Pant. Safety Impacts of Reduced Visibility in Inclement Weather. Report No.: ATLAS-2017-19. |
| 10 | 2017 | Turner, S., …. **S. Das**, …. Synthesis of Methods for Estimating Pedestrian and Bicyclist Exposure to Risk at Area wide levels and on Specific Transportation Facilities. Publication No. FHWA-SA-17-041. |
| 9 | 2017 | Le, M., **S. Das**, and M. Pratt. Safety Performance of Truck Lane Restrictions in Dallas-Fort Worth. TTI. Report. |
| 8 | 2017 | Dixon, K., and S. Das. Measuring and Benchmarking Automated Vehicle Safety. TTI Report. |
| 7 | 2016 | Dixon, K., K. Fitzpatrick, R. Avelar, and **S. Das**. Analysis of the Shoulder Widening need on the State Highway System. Report No. 0-6840-1. |
| 6 | 2016 | Fitzpatrick, K., and **S. Das**. Is Age a Factor in Crashes at Channelized Right-Turn Lanes? An Exploration of Potential Relationships. Report No.: ATLAS-2016-14. |
| 5 | 2015 | Sun, X., **S. Das**, V. Ragbhan, and R. Benton. User Sentiment Analysis with Louisiana Social Media Data for Better and Effective Crash Countermeasures. Report No. 14-4TIRE. |
| 4 | 2015 | Sun, X., and **S. Das**. Developing a method for estimating AADT on all Louisiana roads. Report No. FHWA/LA.15/14-3SA. |
| 3 | 2014 | Sun, X., and **S. Das**. A Comprehensive Study on Pavement Edge Line Implementation. Report No. FHWA/LA.13/508. (***2014 AASHTO High Value Research Sweet Sixteen Award***) |
| 2 | 2013 | Sun, X., and **S. Das**. Developing Crash Modification Factor for Louisiana. Report No. FHWA/LA.12/506. |
| 1 | 2011 | Sun, X., and **S. Das**. Safety Improvement from Edge Lines on Rural Two-Lane Highways. Report No. FHWA/LA.11/487. |

**Book**

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| 2022 | **Das, S**. *Artificial Intelligence in Highway Safety*. CRC Press, Boca Raton, FL. |

**Book Chapter**

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| 6. | 2022 | **Das, S.**, Chapter 10: Impact of COVID-19 on industries. COVID-19 and the Environment Impact, Concerns & Management, Elsevier. |
| 5 | 2020 | **Das, S.,** S. Chatterjee, and S. Mitra. Improper Passing and Lane-Change related Crashes: Pattern Recognition using Association Rules Negative Binomial Mining. Springer. |
| 4 | 2020 | Dutta, A., and **S. Das.** Tweets about Self Driving Cars: Deep Sentiment Analysis using Long Short-Term Memory network (LSTM). Springer. |
| 3 | 2020 | **Das, S.,** Dutta, A., Mudgal, A., and Datta, S. Non-fear-based Road Safety Campaign as a Community Service: Contexts from Social Media. Communication in Computer and Information Science. Conference Proceeding Book of 20th International Conference on Innovations for Community Services (I4CS), 12-14 January 2020, Bhubaneswar, India. Volume 717. Springer, Hessen, Germany. |
| 2 | 2020 | **Das, S.** Automobile Safety Inspection. *International Encyclopedia of Transportation*, Elsevier. Amsterdam, Netherlands. |
| 1 | 2018 | Jalayer, M, Zhou, H.,and **S. Das**. Exploratory Analysis of Run-Off-Road Crash Patterns. *Data Analytics for Smart Cities*. CRC Press, Boca Raton, FL. |

**Peer Reviewed Journal Articles (\* indicates Student) [**[**Google Scholar Citations**](https://scholar.google.com/citations?hl=en&user=qK-YgxAAAAAJ)**: 1463; h-index=19; i10-index=40]**

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| 100 | 2022 | Wei, Z.\*, **S. Das**, and Y. Zhang. Short Duration Crash Prediction for Rural Two-lane Roadways: Applying Explainable Artificial Intelligence. Transportation Research Record (in press). |
| 99 | 2022 | **Das, S.**, M. Le, K. Fitzpatrick, and D. Wu. Did Operating Speeds During COVID-19 Result in More Fatal and Injury Crashes on Urban Freeways? Transportation Research Record (in press). |
| 98 | 2022 | Obaid, I., Alnedawi, A., Aboud, G. M., Tamakloe, R., Zuabidi, H., and **Das, S.** Factors associated with driver injury severity of motor vehicle crashes on sealed and unsealed pavements: random parameter model with heterogeneity in means and variances. International journal of transportation science and technology. |
| 97 | 2022 | Tamakloe, R., Sam, E. F., Bencekri, M., **Das, S.**, and Park, D. Mining groups of factors influencing bus/minibus crash severities on poor pavement condition roads considering different lighting status. Traffic injury prevention. |
| 96 | 2022 | Hossain, M. M., Zhou, H., **Das, S.**, Sun, X., and Hossain, A. Young drivers and cellphone distraction: Pattern recognition from fatal crashes. Journal of Transportation Safety & Security. |
| 95 | 2022 | Kong, X., Li, Z., Zhang, Y., and **Das, S.** Bridge Deck Deterioration: Reasons and Patterns. Transportation Research Record. |
| 94 | 2022 | Khodadadi, A.\*, D. Lord, I. Tsapakis, A. Shirazi, and **S. Das**. Derivation of the Empirical Bayesian method for the Negative Binomial-Lindley generalized linear model: Application in various safety analyses. Accident Analysis & Prevention. |
| 93 | 2022 | Tamakloe, R., Park, D., and **S. Das**. Factors affecting motorcycle crash casualty severity at signalized and non-signalized intersections in Ghana: insights from a data mining and binary logit regression approach. Accident Analysis & Prevention. Vol. 170. |
| 92 | 2021 | **Das, S.,** R. Tamakloe, H. Zubaidi, I. Obaid, and A. Alnedawi. Fatal pedestrian crashes at intersections: Trend mining using association rules. Accident Analysis & Prevention. |
| 91 | 2021 | Kutela, B., B. Dadashova, and **S. Das**. Mining patterns of autonomous vehicle crashes involving vulnerable road users to understand the associated factors. Accident Analysis & Prevention. |
| 90 | 2021 | Kong, X. \*, **S. Das**, H. Zhou, and Y. Zhang. Patterns of near-crash events in a naturalistic driving dataset: applying rules mining. Accident Analysis & Prevention. |
| 89 | 2021 | **Das, S.,** A. Dutta, and M. Rahman. Pattern recognition from light delivery vehicle crash characteristics. Journal of Transportation Safety & Security. |
| 88 | 2021 | **Das, S.,** K. Dey, and M. Rahman. Pattern Recognition from Cyclist Under Influence (CUI) Crash Events. Journal of Substance Use. |
| 87 | 2021 | Kong, X. \*, **S. Das**, and Y. Zhang. Mining patterns of near-crash events with and without secondary tasks. Accident Analysis & Prevention. |
| 86 | 2021 | Das, S. Autonomous Vehicle Safety: Understanding Perceptions of Pedestrians and Bicyclists. Transportation Research Part F: Traffic Psychology and Behaviour***.*** |
| 85 | 2021 | Das, S., Z. Wei\*, X. Kong\*, and X. Xiao\*. Mining crowdsourced data on bicycle safety critical events. Transportation Research Interdisciplinary Perspectives. |
| 84 | 2021 | Zubaidi, H.\*, I. Obaid,\*, A. Alnedawi, **S. Das,** and MM Haque. Temporal instability assessment of injury severities of motor vehicle drivers at give-way controlled unsignalized intersections: A random parameters approach with heterogeneity in means and variances. Accident Analysis & Prevention. |
| 83 | 2021 | Kong, X. \*, **S. Das**, H. Zhou, and Y. Zhang. Lessons learned from pedestrian-driver communication and yielding patterns. Transportation Research Part F: Traffic Psychology and Behaviour. |
| 82 | 2021 | Khodadadi, A. \*, I. Tsapakis, **S. Das**, and D. Lord. Application of Different Negative Binomial Parameterizations to Develop Safety Performance Function for Non-Federal Aid System Roads. Accident Analysis & Prevention***.*** |
| 81 | 2021 | Rahman, M. K. Dey, **S. Das**, and M. Sherfinski. Sharing the Road with Autonomous Vehicles: A Qualitative Analysis of the Perceptions of Pedestrians and Bicyclists. Transportation Research Part F: Traffic Psychology and Behaviour***.*** |
| 80 | 2021 | **Das, S.,** and H. Zubaidi\*. City Transit Rider Tweets: Understanding Sentiments and Politeness. Journal of Urban Technology***.*** |
| 79 | 2021 | Kong, X.\*, **S. Das,** H. Zhou, and Y. Zhang. Patterns of near-crash events in naturalistic driving dataset: applying rules mining. Accident Analysis & Prevention. |
| 78 | 2021 | Park, E., K. Fitzpatrick, **S. Das**, and R. Avelar. Exploration of the relationship among roadway characteristics, operating speed, and crashes for city streets using path analysis. Accident Analysis & Prevention***.*** |
| 77 | 2021 | Zubaidi, H.\*, I. Obaid, I.\*, A. Alnedawi, and **S. Das.** Motor Vehicle Driver Injury Severity Analysis Utilizing A Random Parameter Binary Probit Model Considering Different Types of Driving Licenses in 4-Legs Roundabouts in South Australia. Safety Science***.*** |
| 76 | 2021 | **Das, S.,** and H. Zubaidi\*. Last Forty Years of ITE Journal Articles: A Scientometric Overview. ITE Journal Online Exclusive. |
| 75 | 2021 | **Das, S.,** S. Datta\*, H. Zubaidi\*, and I. Obaid\*. Injury Severity Analysis from Crash Narratives of Tree and Utility Pole associated Crashes: An Interpretable Machine Learning Approach. IATSS Research. |
| 74 | 2021 | **Das, S.,** Mousavi, M.\*, and Shirinzad, M\*. Speeding Related Motorcycle Injuries: Findings from Cluster Correspondence Analysis. Journal of Traffic Safety and Security. |
| 73 | 2022 | **Das, S.,** X. Kong\*, S. Lavrenz, M. Jalayer, and L. Wu. Pattern Recognition from Rail Grade Crossing Fatal Crashes. International Journal of Transportation Science and Technology***.*** Vol. 11, Iss. 1, pp. 107-117. |
| 72 | 2021 | Rahman, M., X. Sun, **S. Das,** and S. Khanal. Exploring the Influential Factors of Roadway Departure Crashes on Rural Two-Lane Highways with Logit Model and Association Rules Mining. International Journal of Transportation Science and Technology. |
| 71 | 2021 | **Das, S.,** I. Tsapakis, and A. Khodadadi\*. Safety Performance Functions for Low-Volume Rural Minor Collector Two-lane Roadways. IATSS Research. |
| 70 | 2021 | **Das, S.** An Exploratory Analysis of Unmanned Aircraft Sightings using Text Mining. Transportation Research Record: Journal of the Transportation Research Board***.*** |
| 69 | 2021 | **Das, S.,** and Dutta, A. Twelve Years of Transportation Annual Meeting Hashtag: Implications for Networking and Research Trends. Transportation Research Record: Journal of the Transportation Research Board***.*** |
| 68 | 2021 | **Das, S.,** X. Sun, B. Dadashova, M. Rahman, and M. Sun. Sun Glare and Traffic Crashes: Identifying Patterns of Key Factors. Transportation Research Record: Journal of the Transportation Research Board***.*** |
| 67 | 2021 | **Das, S.**, Dutta, A., and Tsapakis, I. Motorcycle Crash Causation Study: Exploratory Topic Models from Crash Narrative Reports. Transportation Research Record: Journal of the Transportation Research Board**.** |
| 66 | 2021 | **Das, S.**, and Dutta, A. Light Delivery Vehicles Crashes: Identifying Insights using Joint Dimension Reduction and Clustering. Transportation Research Record: Journal of the Transportation Research Board***.*** |
| 65 | 2021 | **Das, S.** Fatal Crash Reporting in Media: A Case Study on Bangladesh. Transportation Research Record: Journal of the Transportation Research Board. |
| 64 | 2021 | Tsapakis, I., **S. Das**, S. Jessberger, W. Holik, and P. Anderson. Improving Stratification Procedures to Estimate Annual Average Daily Traffic (AADT) for Non-Federal Aid-System (NFAS) Roads. Transportation Research Record: Journal of the Transportation Research Board***.*** |
| 63 | 2021 | Fitzpatrick, K., **S. Das**, T. Gates, K. Dixon, and E. Park. Considering Roadway Context in Setting Posted Speed Limits. Transportation Research Record: Journal of the Transportation Research Board. |
| 62 | 2020 | Jalayer, M., M. Pour-Rouholamin, D. Patel, **S. Das**, and H. Parvardeh, H. A Penalized-likelihood Approach to Characterizing Bridge related Crashes in New Jersey. Traffic Injury Prevention**.** |
| 61 | 2020 | **Das, S.** Traffic Volume Prediction in Low-Volume Roadways: Cubist Approach. Transportation Planning and Technology***.*** |
| 60 | 2020 | **Das, S.,** X.Sun, and M. Sun. Rule-based safety prediction models for rural two-lane run-off-road crashes. International Journal of Transportation Science and Technology. |
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| 8 | 2014 | Sun, X., **S. Das**, Z. Zhang, and F. Wang. Investigating Safety Impact of Edge Line on Narrow Rural Two-Lane Highways by Empirical Bayes Method. The 93rd Transportation Research Board Annual Meeting, Washington D.C., Jan 12-16. |
| 7 | 2014 | **Das, S.,** and X. Sun. Investigating the Pattern of Traffic Crashes under Rainy Weather by Association Rules in Data Mining. The 93rd Transportation Research Board Annual Meeting, Washington D.C., Jan 12-16. |
| 6 | 2014 | **Das, S.,** X. Sun, and A. Dutta. Sentiment Analysis of the Riders of the Bike Sharing Programs. 55th Annual Transportation Research Forum, San Jose, CA, Mar 13-15. |
| 5 | 2014 | **Das, S.** Analyzing At-fault Crash-Prone Drivers of Louisiana associated with Multiple Crashes. SASHTO 2014 Annual Conference, New Orleans, LA, Aug 23-27 (***2014 SASHTO Outstanding Graduate Research Award***). |
| 4 | 2013 | Sun, X., and **S. Das**. Converting Divided Urban Four-Lane Roadway to Five-Lane Roadway: Successful Case Study in Louisiana. The 92nd Transportation Research Board Annual Meeting, Washington D.C., Jan 13-17. |
| 3 | 2013 | Sun, X., **S. Das**, S. Rasel, and F. Wang. Analyzing Crash-Prone Drivers in Multiple Crashes for Better Safety Educational and Enforcement Strategies. The 92nd Transportation Research Board Annual Meeting, Washington D.C., Jan 13-17. |
| 2 | 2013 | **Das, S.,** and X. Sun. Investigating the Safety Impact of Raised Pavement Markers. The 92nd Transportation Research Board Annual Meeting, Washington D.C., Jan 13-17. |
| 1 | 2012 | Sun, X., **S. Das**, N. Fruge, R. Bertinot, and D. Magri. Crash Modification Factor for an Inexpensive yet Very Cost-Effective Safety Improvement: Converting Undivided Four-Lane Urban Roadways to Five-Lane Roadways. The 91st Transportation Research Board Annual Meeting, Washington D.C., Jan 22-26. |

**TALKS/WORKSHOPS**

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| 20. | 2021 | A Real-time Decision Support Tool for Rural Roadways. November 29, Austin. |
| 19. | 2021 | New Frontiers in Highway Safety Research. UL Lafayette Civil Engineering Department Invited Talk. November 24 (virtual). |
| 18. | 2021 | Naturalistic Driving Studies with focus on Novice Teenage Drivers—Research Challenges and Opportunities. American Statistical Association Invited Talks. November 3 (virtual). |
| 17. | 2021 | Application of Big Data in Highway Safety Modeling. Transportation Data Science Seminar Series. Texas A&M University Institute of Data Science, College Station, March 11. |
| 16. | 2019 | Application of Natural Language Processing (NLP) in Transportation Studies. Texas A&M University ITE General Meeting, College Station, TX, February 2. |
| 15. | 2019 | TxDOT Roadway Departure Safety Implementation Workshop. Lubbock, TX. November 4. |
| 14 | 2019 | AADT Estimation Errors in Predicting Safety of Low-volume Roadways. The 98th Transportation Research Board Annual Meeting, Washington D.C., Jan 13. |
| 13 | 2019 | Youtube as a Source of Information in Understanding Autonomous Vehicle Consumers: A Natural Language Processing (NLP) Study, Washington D.C., Jan 14. |
| 12 | 2019 | Injury Severity Analysis from Crash Narratives of Tree and Utility Pole associated Crashes: An Interpretable Machine Learning Approach, Washington D.C., Jan 15. |
| 11 | 2019 | Estimation of Traffic Volumes on Low-Volume Roads: Interpretable Machine Learning Approach, Washington D.C., Jan 16. |
| 10 | 2018 | Using Deep Learning in Severity Analysis of At-Fault Motorcycle Rider Crashes. The 97th Transportation Research Board Annual Meeting, Washington D.C., Jan 9. |
| 9 | 2018 | #TRBAM: Understanding Communication Patterns and Research Trends by Twitter Mining. The 97th Transportation Research Board Annual Meeting, Washington D.C., Jan 9. |
| 8 | 2017 | Developing a Method for Estimating AADT on Local Roads. 2017 TRC Transportation Engineering Conference, Hot Springs, AK, May 17. |
| 7 | 2017 | Text mining on 100 years of Air Crash Narratives: Key Findings. The 96th Transportation Research Board Annual Meeting, Washington D.C., Jan 11. |
| 6 | 2017 | Workshop on Text Mining in R: Understanding 100 years of Air Crash Narratives. Texas A&M University ITE General Meeting, College Station, TX, February 9. |
| 5 | 2017 | Workshop on R in Transportation Safety Research: Case Studies. Texas A&M University ITE General Meeting, College Station, TX, February 7. |
| 4 | 2017 | Visualization Lightning Talk: Visual Analytics by using Web GIS Tools in Transportation Decision Making. The 96th Transportation Research Board Annual Meeting, Washington D.C., Jan 11. |
| 3 | 2016 | Modeling in Roadway Safety: The Two Cultures. Texas A&M University ITE General Meeting, College Station, TX, May 17. |
| 2 | 2015 | Two days’ workshop on Interactive Highway Safety Design Model (IHSDM). Civil Engineering Department, University of Louisiana at Lafayette, LA, Mar. |
| 1 | 2014 | Two days’ workshop on Interactive Highway Safety Design Model (IHSDM). Civil Engineering Department, University of Louisiana at Lafayette, LA, Mar. |

**MEDIA**

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| 2021 | TTI News feature ‘Das Publishes Transportation Research Record Analysis in TR News.’ https://tti.tamu.edu/news/das-publishes-transportation-research-record-analysis-in-tr-news/ |
| 2021 | Texas Transportation Research Special Issue on ‘Big Data Goes Country: Integrating Speed and Weather Measures to Study Rural Roadway Safety’  https://tti.tamu.edu/researcher/big-data-goes-country-integrating-speed-and-weather-measures-to-study-rural-roadway-safety/ |
| 2020 | TTI News feature ‘Winfree, Das Featured in Traffic Technology International.’ https://tti.tamu.edu/news/winfree-das-featured-in-traffic-technology-international/ |
| 2020 | A detailed interview is featured in Traffic Technology International September Issue. https://tti.mydigitalpublication.co.uk/publication/?i=672384 |
| 2020 | An interview is featured in Star Tribune Newspaper (March 21). https://www.startribune.com/arrests-rare-in-minor-minneapolis-hit-and-run-cases/568965202/ |
| 2018 | Subasish’s #TRBAM analysis were posted by NASEMTRB’s official social media handles. |
| 2016 | TRB Committee ABG40’s newsletter Kaleidoscope featured Subasish’s text mining paper. |
| 2015 | Eno Transportation Center’s online annual report highlighted Subasish’s Eno fellowship. |
| 2014 | AASHTO newsletter ‘Research Makes Difference’ featured on Subasish’s 2014 AASHTO Sweet Sixteen High Value Research award. |
| 2014 | AASHTO Research Impact 2014 newsletter featured on Subasish’s ‘4U to 5T’ project. |
| 2014 | LTRC newsletter made a feature on Subasish’s 2014 AASHTO Sweet Sixteen High Value Research award. |
| 2013 | GRITS Newsletter highlighted Subasish’s First Place Scholarship for Academic Excellence. |

**COURSES DEVELOPED**

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| 2 | 2020 | Graduate level course on ‘Artificial Intelligence in Highway Safety’ |
| 1 | 2020 | Graduate level course on ‘Highway Safety Core Competency’ (https://github.com/subasish/NCHRP-20-07-384-CC-Courses) |

**COURSES TAUGHT/SUPERVISED**

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| 3 | 2013 | Teaching Assistant of graduate level course ‘Highway Safety Fundamental Course’ at UL Lafayette. |
| 2 | 2012 | Teaching Assistant of graduate level course ‘Highway Safety Fundamental Course’ at UL Lafayette. |
| 1 | 2011 | Teaching Assistant of graduate level course ‘Highway Safety Fundamental Course’ at UL Lafayette. |

**RESEARCH MENTORING**

**Thesis Supervision**

Committee Member, Investigating the Impact of Roadway Geometry, Speed Distribution, and Weather Condition on Roadway Daily Crash Occurrence and Severity by using Machine Learning Methods, M.S. Thesis of Z. Wei, 2021

Committee Member, *Vehicle Category Classification based on GPS Trajectory Data*, M.S. Thesis of R. Wang, 2020.

Mentor, *Investigating Safety Effectiveness of Centerline Rumble Strips on Rural Two-Lane Roads in Louisiana with Empirical Bayes Method*, M.S. Thesis of M. A. Rahman, 2016.

Mentor, *Development of Crash Prediction Models for Transportation Planning Analysis*, M.S. Thesis of N. Broussard, 2015.

Mentor, *Estimating Annual Average Daily Traffic for Non-State Roads in Louisiana,* M.S. Thesis of C. W. LeBoeuf, 2014.

Mentor, *Analyzing the Safety Impact of Crash-Prone Drivers in Louisiana,* M.S. Thesis of F. Wang, 2013.

Mentor, *Safety Effectiveness of Raised Pavement Markers,* M.S. Thesis of S. Rasel, 2012.

**PhD Students**

Yanmo Wang, Civil Engineering (2021-), Zihang Wei, Civil Engineering, TAMU (2020-); Ali Khodadadi, Civil Engineering, TAMU (2019-); Xiaoqiang “Jack” Kong, Civil Engineering, TAMU (2018-); Shruti Ashraf, Civil Engineering, TAMU (2018-2019); Chaolun Ma, Civil Engineering, TAMU (2018-2019); Songjukta Datta, Civil Engineering, TAMU (2017-2018);

**M.S. Students**

Vikram Agarwal, Civil Engineering, TAMU (2020-); Ruihong Wang, Electrical and Computer Engineering, TAMU (2019-2020); Nabila Nazneen, Chemical Engineering, TAMU (2019-); Samia Tasnim, Public Health, TAMU (2019-); Bita Maraghehpour, Public Health, TAMU (2019-); Apoorba Bibeka, Civil Engineering, TAMU (2016-2019); Sadia Najneen, Public Health, TAMU (2018-2019); Isha Narsaria, Civil Engineering, TAMU (2018-2019); Condor Manaswini, Civil Engineering, TAMU (2018-2019); Alence Poudel, Civil Engineering, TAMU (2019-); Tamanna Tasnum, Construction Science, TAMU (2016);

**Undergraduate Students**

Magdalena Theel, TAMU (2019-); Ly-Na Tran, TAMU (2019-); Jacob Bruce, Civil Engineering, TAMU (2019-); Anthony Teo, Computer Science and Engineering, TAMU (2018-19); Urel Djiogan, Computer Science and Engineering, TAMU (2019); Richard Padilla, Computer Science and Engineering, TAMU (2018-2019); Daxton Davidson, Civil Engineering, TAMU (2018); Michelle Zupancich, Civil Engineering, TAMU (2016);