

Education

- **University of California, San Diego (UCSD)** La Jolla, CA, USA
Ph.D. in Mechanical Engineering Sep. 2011 – Dec. 2016
 - Thesis: Boundary controllers and observers for Korteweg-de Vries, hyperbolic and parabolic PDEs
 - Advisor: Professor Miroslav Krstic
- **Southwest University** Chongqing, China
M.Sc. in Mathematics Sep. 2008 – Jun. 2011
 - Thesis: Boundary stabilization of coupled PDE - ODE systems by backstepping
 - Advisor: Professor Chengkang Xie
- **Southwest University** Chongqing, China
B.Sc. in Mathematics Sep. 2004 – Jun. 2008
 - First Prize for B.Sc. dissertation: Matrix norms and their relations
 - Thesis advisor: Prof. Chengkang Xie

Appointments

- **Texas Tech University** Lubbock, TX, USA
Assistant Professor in Department of Mechanical Engineering Jun. 2019 – Present
 - Projects: Optimal sensor placement, with applications in
 - Lithium-ion battery systems: state-of-charge and state-of-health estimation
 - Swarm robotic systems: 3D printing applications
 - Oil drilling systems, water management systems, traffic management systems
- **University of California, Berkeley** Berkeley, CA, USA
Postdoc in Department of Electrical Engineering & Computer Sciences Jan. 2018 – Jun. 2019
- **INRIA Sophia Antipolis - Méditerranée** Valbonne, France
Postdoc in Team ACUMES Jan. 2018 – Apr. 2019
 - Project: Smart cities: real-time decision making in traffic management
 - Control design for regulating network traffic systems in the macroscopic scale
 - Control design for regulating automated platoons in mixed highway scenarios
 - Principal investigators: Professor Alexandre Bayen and Professor Paola Goatin
- **University of Waterloo** Waterloo, Ontario, Canada
Postdoc in Department of Applied Mathematics Jan. 2017 – Dec. 2017
 - Project: Optimal sensor design of distributed parameter systems
 - Principal investigator: Professor Kirsten Morris
- **Cymer Center for Control Systems and Dynamics, UCSD** La Jolla, CA, USA
Graduate Student Researcher Sep. 2011 – Dec. 2016
 - **State-of-charge estimation of Li-ion battery**
 - Battery management system project with Robert Bosch GmbH, Sep. 2014 – Aug. 2015
 - Control design for stabilizing off-shore oil drilling systems
 - Control design for regulating shallow water systems
 - Control design for deployment and formation tracking of multi-agent systems

- Control design for stabilizing 3D printing systems with phase transition phenomenon
- Control design for regulating disturbed cages in ascending cable elevators
- Principal investigator: Professor Miroslav Krstic

- **Université Pierre et Marie Curie (UPMC)** Jussieu, Paris, France
Visiting Student Researcher in Laboratoire Jacques-Louis Lions (LJLL) *Sep. 2015 – Feb. 2016*
 - Project I: Stability analysis of (nonlinear) Kortweg-de Vries equations
 - Project II: Stability analysis of voltage-actuated nonlinear piezoelectric beams
 - Principal investigator: Professor Jean-Michel Coron
- **Mitsubishi Electric Research Laboratories** Boston, MA, USA
Research Intern *Jun. 2014 – Sep. 2014*
 - Project: Development of state-of-charge estimation algorithm of Li-ion batteries
 - Hosts: Dr. Yebin Wang, Dr. Zafer Sahinoglu
- **Southwest University** Chongqing, China
Graduate Student Researcher *Sep. 2008 – Jun. 2011*
 - Project: Backstepping control of coupled PDE-ODE systems
 - Control design for stabilizing solid-gas interaction of heat diffusion and chemical reaction
 - Control design for stabilizing two rigid bodies connected with one spring at each end

Awards and Recognitions

- BPA (Berkeley Postdoctoral Association) professional development award, 2019
- NSF early career travel award for SIAM Conference on Control and Its Applications, 2019
- Inria@SiliconValley Post-Doc Fellowship for outstanding academic performance, 2018 – 2019
- Elevated to the grade of IEEE Senior Member for professional standing, 2018
- NSF ADVANCE travel award for AWM (Association for Women in Mathematics) Research Symposium, 2019.
- NSF early career travel award for SIAM Conference on Control and Its Applications, 2017
- Student travel award for ASME Dynamic Systems and Control Conference, 2016
- Student travel award for American Control Conference, 2015
- Selected as Jacobs Fellow for outstanding academic performance, 2011 – 2014
- Graduated with the highest honor as a master student, 2011
- First Prize for B.Sc. dissertation: Matrix norms and their relations, 2008
- Receive the scholarship for outstanding academic performance, 2004 – 2011

Grants

- **National Natural Science Foundation (NSF)** China
co-PI *Jan. 2018 – Dec. 2021*
 - Project: PDE-based Modeling and Formation Control for Large Scale Collective Systems with Time-delay and Time-varying Dynamics (90K US dollars)

Teaching

- **Department of Mechanical Engineering, Texas Tech University**
 - ME 4334 (“Control of Dynamic Systems”). Fall semester 2019, Spring semester 2020.
- **Department of Mathematics, University of Waterloo, Canada**
 - MATH 127 (“Calculus I for the Sciences”). Fall quarter 2017.
- **Teaching Assistant, Mechanical and Aerospace Engineering, UCSD**
 - MAE 281A (“Nonlinear Systems”). Winter quarter 2014, Winter quarter 2015.
 - MAE 287 (“Control of Distributed Parameters Systems”). Fall quarter 2014.
- **Lecturer in training, Mathematics and Statistics, Southwest University, China**
 - “Mathematical Modeling”. Fall semester 2010.

Publications

• Journal Papers

Published or Accepted:

- [1] **S.-X. Tang** and C.-K. Xie, State and output feedback boundary control for a coupled PDE-ODE system, *Systems & Control Letters*, vol. 60, no. 8, pp. 540–545, 2011.
- [2] **S.-X. Tang** and C.-K. Xie, Stabilization for a coupled PDE-ODE control system, *Journal of the Franklin Institute*, vol. 348, no. 8, pp. 2141–2155, 2011.
- [3] Z.-C. Zhou and **S.-X. Tang**, Boundary stabilization for a coupled wave-ODE system with internal anti-damping, *International Journal of Control*, 85:11, 1683–1693, 2012.
- [4] A. Diagne, M. Diagne, **S.-X. Tang** and M. Krstic, Stabilization of the linearized *Saint-Venant-Exner* model via backstepping boundary control, *Automatica*, vol. 76, 345–354, 2017.
- [5] Z.-Y. Zhen, **S.-X. Tang** and Z.-C. Zhou, Stabilization of a heat-ODE system cascaded at a boundary point and an intermediate point, *Asian Journal of Control*, vol. 19 (5), 1834–1843, 2017.
- [6] **S.-X. Tang**, L. Camacho-Solorio, Y.-B. Wang and M. Krstic, State-of-charge estimation from a thermal-electrochemical model of lithium-ion batteries, *Automatica*, vol. 83C, 206–219, 2017.
- [7] M. Diagne, **S.-X. Tang**, A. Diagne and M. Krstic, Control of shallow waves of two unmixed fluids by backstepping, *Annual Reviews in Control*, vol. 44, pp. 211–225, 2017.
- [8] **S.-X. Tang**, J. Qi and J. Zhang, Formation tracking control for multi-agent systems: a wave-equation based approach, *International Journal of Control, Automation and Systems*, vol. 15, no. 6, pp. 2704–2713, 2017.
- [9] Y.-H. Liu, G.-Z. Cao, **S.-X. Tang** and X.-S. Cai, Energy-based and H_∞ robust stabilisation of stochastic nonlinear systems, *IET Control Theory & Applications*, vol. 12, no 2, pp. 318–325, 2018.
- [10] J.-X. Chu, J.-M. Coron, P.-P. Shang and **S.-X. Tang**, Gevrey class regularity of a semigroup associated with a nonlinear Korteweg-de Vries equation, *Chinese Annals of Mathematics, Series B*, vol. 39B(1), pp. 1–12, 2018.
- [11] J. Wang, **S.-X. Tang**, Y.-J. Pi and M. Krstic, Exponential regulation of the anti-collocatedly disturbed cage in a wave PDE-modeled ascending cable elevator, *Automatica*, vol. 95, 122–136, 2018.
- [12] **S.-X. Tang**, J.-X. Chu, P.-P. Shang and J.-M. Coron, Asymptotic stability of a KdV equation with a two-dimensional center manifold, *Advances in Nonlinear Analysis*, vol. 7, 497–515, 2018.
- [13] J. Qi, **S.-X. Tang** and C. Wang, Parabolic PDE-based multi-agent formation control on a cylindrical surface, *International Journal of Control*, vol. 92, no. 1, 77–99, 2019.
- [14] J. Wang, **S.-X. Tang** and M. Krstic, Adaptive output-feedback control of torsional vibration for off-shore rotary oil drilling systems, *Automatica*, 2019.

Under Review:

- [15] A. Hasan and **S.-X. Tang**, Boundary control of a coupled Burgers' PDE-ODE system, *IEEE Transactions on Automatic Control*, under review.
- [16] **S.-X. Tang**, A. Keimer and A. Bayen, PDE-modeled traffic systems subject to instantaneous and memory-based routing, *IEEE Transactions on Control of Network Systems*, under review.

• **Refereed Conference Papers**

Published or Accepted:

- [1] **S.-X. Tang** and C.-K. Xie, Stabilization of a coupled PDE-ODE system by boundary control, IEEE Conference on Decision and Control, 2010.
- [2] **S.-X. Tang**, C.-K. Xie and Z.-C. Zhou, Stabilization of a class of delayed coupled PDE-ODE systems with boundary control, Chinese Control and Decision Conference, 2011.
- [3] Z.-C. Zhou and **S.-X. Tang**, Boundary stabilization of a coupled wave-ODE system, Chinese Control Conference, 2011.
- [4] **S.-X. Tang** and M. Krstic, Stabilization for linearized Kortweg-de Vries systems with anti-diffusion, American Control Conference, 2013.
- [5] **S.-X. Tang** and M. Krstic, Sliding mode control to stabilization of linear 2×2 hyperbolic systems with boundary input disturbance, invited session paper, American Control Conference, 2014.
- [6] **S.-X. Tang**, B.-Z. Guo and M. Krstic, Active disturbance rejection control for 2×2 hyperbolic systems with input disturbance, IFAC World Congress, 2014.
- [7] **S.-X. Tang** and M. Krstic, Stabilization of linearized Kortweg-de Vries systems with anti-diffusion by boundary feedback with non-collocated observation, American Control Conference, 2015, student travel award received.
- [8] **S.-X. Tang**, Y.-B. Wang, Z. Sahinoglu, T. Wada, S. Hara and M. Krstic, State-of-charge estimation for lithium-ion batteries via a coupled thermal-electrochemical model, American Control Conference, 2015, student travel award received.
- [9] A. Diagne, M. Diagne, **S.-X. Tang** and M. Krstic, Backstepping stabilization of the linearized *Saint-Venant-Exner* model: part I – state feedback, IEEE Control and Decision Conference, 2015.
- [10] A. Diagne, M. Diagne, **S.-X. Tang** and M. Krstic, Backstepping stabilization of the linearized *Saint-Venant-Exner* model: part II – output feedback, IEEE Control and Decision Conference, 2015.
- [11] A. Diagne, **S.-X. Tang**, M. Diagne and M. Krstic, Stabilization of the bilayer *Saint-Venant* model by state feedback backstepping control, invited session paper, the IFAC Workshop on Control of Systems Governed by Partial Differential Equations, 2016.
- [12] Y.-H. Liu, G. Cao, **S.-X. Tang** and X. Cai, Dissipation analysis and H_∞ control of stochastic nonlinear systems based on Hamiltonian realization, American Control Conference, 2016.
- [13] S. Koga, M. Diagne, **S.-X. Tang** and M. Krstic, Backstepping control of a one-phase Stefan problem, invited session paper, American Control Conference, 2016.
- [14] **S.-X. Tang** and M. Krstic, Observer design for an IPDE with time-dependent coefficients, invited session paper, American Control Conference, 2016.
- [15] A. Diagne, **S.-X. Tang**, M. Diagne and M. Krstic, Output feedback stabilization of the bilayer *Saint-Venant* model, ASME Dynamic Systems and Control Conference, 2016, student travel grant received.
- [16] J. Wang, **S.-X. Tang**, Y.-J. Pi and M. Krstic, Disturbance estimation of a wave PDE on a time-varying domain, SIAM Conference on Control and Its Applications, 2017, early career travel award received.
- [17] **S.-X. Tang** and K. Morris, Optimal sensor design for infinite-time Kalman filters, invited session paper, IEEE Conference on Decision and Control, 2017.

- [18] A. Hasan and **S.-X. Tang**, Local exponential stabilization of a coupled Burgers' PDE-ODE system, IEEE Conference on Decision and Control, 2017.
- [19] Y.-H. Liu, J.-Y. Li and **S.-X. Tang**, Observer-based stabilization of stochastic Hamiltonian systems, American Control Conference, 2018.
- [20] D. Zhang, **S.-X. Tang** and S. Moura, State and disturbance estimator for unstable reaction-advection-diffusion PDE with anti-located disturbance, invited session paper, SIAM Conference on Control and Its Applications, 2019.
- [21] F.-C. Chou, **S.-X. Tang**, X.-Y. Lu and A. Bayen, Backstepping-based time-gap regulation for platoons, American Control Conference, 2019.
- [22] **S.-X. Tang**, A. Keimer, P. Goatin and A. Bayen, Minimum time control of scalar traffic flows on bounded intervals, invited session paper, IEEE Conference on Decision and Control, 2019.
- [23] **S.-X. Tang**, A. Keimer and A. Bayen, Well-posedness of scalar semilinear balance laws subject to nonlinear boundary control operators, invited session paper, IEEE Conference on Decision and Control, 2019.

- **Abstract**

Published or Accepted:

- [1] J. Qi and **S.-X. Tang**, Multi-robot formation control on a plane via PDE approach, the 6th International Conference on Optimization and Control with Applications, 2015.
- [2] **S.-X. Tang**, K. Morris and J.-M. Coron, Stability analysis of the fourth-order ODE analogous to a piezoelectric beam PDE, SIAM Conference on Control and Its Applications, 2017.
- [3] **S.-X. Tang**, L. Camacho-Solorio, Y.-B. Wang and M. Krstic, State-of-charge estimation of lithium-ion batteries modeled by a coupled PDE-ODE system, SIAM Conference on Control and Its Applications, 2017.
- [4] J. Wang, **S.-X. Tang**, Y.-J. Pi and M. Krstic, Disturbance estimation of a wave PDE on a time-varying domain, SIAM Conference on Control and Its Applications, 2017.
- [5] **S.-X. Tang**, A. Keimer and A. Bayen, Routing (Operators) in Traffic Flow Modeling with Semilinear PDEs, AWM (Association for Women in Mathematics) Research Symposium, 2019.
- [6] Y.-L. Liao, **S.-X. Tang** and M. Krstic, Backstepping-Based Predictor Feedback Control for Linear Systems with a Time-Varying Input Delay, SIAM Conference on Control and Its Applications, 2019.
- [7] D. Zhang, **S.-X. Tang**, S. Dey and S. Moura, Observer Design for Semilinear Parabolic PDEs, SIAM Conference on Control and Its Applications, 2019.

Presentations

- Selected Invited Talks

- *Suppressing the instabilities in deep offshore oil production*, Invited featured speaker, the 4th International Conference on Fossil and Renewable Energy (F&R Energy-2020), Houston, USA, February 2020.
- *Optimal sensor design for infinite-time Kalman filters*, Seminar, Department of Mechanical Engineering, Texas Tech University, Lubbock, USA, November 2019.
- *PDE controls in battery management and swarm robotics*, Seminar, Department of Mechanical & Aerospace Engineering, University of California, Davis, April 2019.
- *PDE controls in battery management and oil production*, Seminar, Department of Mechanical Engineering, University of Houston, January 2019.
- *Controls in coupled PDE-ODE systems*, Seminar, School of Marine Science and Technology, Northwestern Polytechnical University, China, September 2018.
- *PDE backstepping in multi-agent formation control*, Seminar, School of Automation, Northwestern Polytechnical University, China, September 2018.

- *Sensor design for distributed parameter systems*, Scientific Session: Control of Partial Differential Equations, Mathematical Congress of the Americas, Montreal, Canada, July 2017.
- *Backstepping observer design of PDEs: estimating the state of linearized KdV equations and state-of-charge of Li-ion batteries*, Seminar, Department of Electrical & Computer Engineering, Michigan State University, USA, November 2016.
- *Asymptotic stability of a Korteweg-de Vries equation with a two-dimensional center manifold*, Seminar, Gipsa-lab, Grenoble, France, March 2016.
- *Introduction to PDE backstepping method – Observer Designs for two PDEs*, Seminar, Departamento de Ecuaciones Diferenciales y Analisis Numrico (Department of Differential Equations and Numerical Analysis) & Departamento de Ingenier Aeroespacial (Department of Aerospace Engineering), Universidad de Sevilla, Sevilla, Spain, February 2016.
- *Introduction to PDE backstepping control design – control design of Korteweg-de Vries systems*, Seminar, College of Information Science and Technology, Donghua University, Shanghai, China, December 2015.
- *Center manifold method for stability analysis on nonlinear Korteweg-de Vries systems*, Seminar, Department of Mathematics, Tongji University, Shanghai, China, December 2015.
- Selected Outreach Activities
 - *Deployment and formation control of swarm robotic systems*, Pi squared presentations, Texas Tech University, February 2020.
 - *Improving state-of-charge estimation of Li-ion batteries by incorporating thermal behavior*, the UC San Diego Grad Slam, UCSD, April 2015.
- Posters
 - *Optimal sensor design for PDE estimation*, Workshop – Sensor Location in Distributed Parameter Systems, Institute for Mathematics and its Applications (IMA), University of Minneapolis, USA, September 2017.
 - *Optimal sensor design for distributed parameter systems*, Workshop – Women in Control: New trends in infinite dimensions, Banff International Research Station, Canada, July 2017.
 - *Asymptotic stability of a KdV equation with a 2-dim center manifold*, Analysis of Partial Differential Equations using Dynamical Systems Techniques – A conference in honor of the 60th birthday of C. Eugene Wayne, Department of Mathematics, Boston University, June 2016.
 - *Observer design for an IPDE with time-varying coefficients*, the 35th Annual Research Exposition, Jacobs School of Engineering, UCSD, April 2016.
 - *State-of-charge estimation for lithium-ion batteries via a coupled thermal-electrochemical model*, the 34th Annual Research Exposition, Jacobs School of Engineering, UCSD, April 2015.
 - *Control designs for a linear 2×2 hyperbolic system with a matched boundary disturbance*, the 33rd Annual Research Exposition, Jacobs School of Engineering, UCSD, April 2014.

Academic Services

- **Senior member** of IEEE, member of SIAM, ASME, AMS
- IEEE CSS **technical committee** member on *Distributed Parameter Systems*
- **Program committee member** for the 2013 ASME Dynamic Systems and Control Conference
- **Editorship**
 - Associate editor, Journal of Control, Automation and Electrical Systems, 2018 – present
 - Associate editor, IEEE Control Systems Society (CSS) Conference Editorial Board, 2019 – present
 - Associate editor, the ASME Dynamic Systems and Control Conference, 2020 – present

- **Reviewer**

- NSF review panelist, 2020.
 - IEEE review panel, July 2019; October 2019.
 - **Journals:** Mathematical Reviews/MathSciNet; IEEE Transactions on Automatic Control; Automatica; SIAM Journal on Control and Optimization; IEEE Transactions on Intelligent Transportation Systems; Systems & Control Letters; Annual Reviews in Control; International Journal of Control; Journal of the Franklin Institute; International Journal of Robust and Nonlinear Control; IEEE Transactions on Control of Network Systems; IEEE Transactions on Control Systems Technology; European Journal of Control; Asian Journal of Control; ASME Journal of Dynamic Systems, Measurement and Control; IEEE Transactions on Industrial Electronics; Acta Mathematica Scientia; Aerospace Science and Technology; IEEE Transactions on Systems, Man and Cybernetics: Systems; International Journal of Control, Automation and Systems; Communications in Information and Systems; International Journal of Adaptive Control and Signal Processing; IEEE/CAA Journal of Automatica Sinica; IET Cyber-Systems and Robotics; Journal of Sound and Vibration; Energies.
 - **Conferences:** IEEE Conference on Decision and Control; ASME Dynamic Systems and Control Conference; ASME International Mechanical Engineering Congress & Exposition; American Control Conference; IFAC World Congress; Mediterranean Conference on Control and Automation; IEEE International Conference on Control & Automation; IEEE Conference on Control Technology and Applications; IFAC Workshop on Control of Systems Modeled by Partial Differential Equations; Chinese Control Conference; Chinese Control and Decision Conference; Israel Annual Conference on Aerospace Sciences.
- Judge for ASME Energy Systems Technical Committee (ESTC) Best Student Paper award in American Control Conference, July 2019.

- **Organizer or Co-organizer of Minisymposia/Invited Sessions**

- Invited session on *Control and Estimation of Flow Systems*, American Control Conference, Denver, USA, July 2020, proposal under review
- Minisymposia on *Backstepping Control of infinite-dimensional systems: Parts 1 & 2*, SIAM Conference on Control and Its Applications, Chengdu, China, June 2019
- Special session on *Control Problems in PDE-modeled Systems*, AWM (Association for Women in Mathematics) Research Symposium, Rice University, Houston, Texas, USA, April 2019
- Minisymposium on *Control Problems in Nonlinear PDE Systems*, SIAM Conference on Control and Its Applications, Pittsburgh, Pennsylvania, USA, July 2017
- Minisymposium on *Lithium-Ion Battery Modeling and State-of-Charge Estimation*, SIAM Conference on Control and Its Applications, Pittsburgh, Pennsylvania, USA, July 2017

- **Chair or Co-chair of Sessions**

- Co-chair, *Observers for Nonlinear Systems (Regular Session)*, American Control Conference, Milwaukee, USA, June 2018
- Co-chair, *Estimation (Regular Session)*, American Control Conference, Milwaukee, USA, June 2018
- Co-chair, *Distributed Parameter Systems V (Regular Session)*, IEEE Conference on Decision and Control, Melbourne, Australia, December 2017

- Graduate Student Representative for Southwest University, Ph.D. Workshop in Beijing, China, 2010

Community services

- Host of seminar talk at Department of Mechanical Engineering, Texas Tech University, February 2020
- Judge for *Mechanical Engineering Capstone Design Exposition*, Texas Tech University, December 2019

- Presenter for Robotics workshop in *Berkeley Girls in Engineering Summer Program*, UC Berkeley, June 2019
- Judge for Pioneers in Engineering (PiE)'s 2019 Robotics Design Reviews, University of California, Berkeley, March 2019
- Volunteer in planning and execution, IEEE International Conference on Intelligent Transportation Systems (ITSC), Hawaii, November 2018
- Presenter for self-driving car workshop in *Berkeley Girls in Engineering Summer Program*, UC Berkeley, June 2018
- Department representative, Graduate Student Association, UCSD, 2011-2015
- UCSD Department of Mechanical & Aerospace Engineering Council member, 2011-2015
- Tutor for two AVID (Advancement Via Individual Determination, a college preparation program) classes in Education Corps program at UCSD, Mission Bay High School, San Diego, April - June 2015
- Student volunteer in execution, 2013 SIAM Annual Meeting and SIAM Conference on Control and Systems Theory and Its Applications, San Diego, 2013
- Volunteer for hands-on activities, San Diego Science and Engineering Festival, San Diego, 2012
- UCSD graduate student representative, 10th Annual Student Lobby Conference, Sacramento, 2012
- UCSD graduate student representative, Students of Color Conference, UC Davis, 2011

References

- Prof. Miroslav Krstic
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- Prof. Alexandre Bayen
 Department of Electrical Engineering and Computer Sciences
 Department of Civil and Environmental Engineering
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 University of California, Berkeley, CA 94720, USA.
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- Prof. Jean-Michel Coron
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