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EDUCATION	UC Davis , Davis, CA Ph.D. candidate in Physics Passed qualifying exam March 2018, preliminary exam September 2016 GPA 3.80 out of 4.0 Yale University , New Haven, CT BS in Mathematics and Physics	September 2015 to June 2021 (expected) September 2011 to May 2015
RESEARCH EXPERIENCE	Graduate Student Research Assistant UC Davis Physics Department Advisor: Prof. Raissa D’Souza <ul style="list-style-type: none">Nonlinear dynamics, symmetry breaking states, and control of collective behavior of nanoelectro-mechanical oscillators (NEMS) and other limit cycle oscillator networksEffect of symmetries in dynamical systems on the Koopman operator and its approximationsEffective decoupling in networks of linearly coupled limit cycle oscillators Visitor, IPAM Long Program Title: Machine Learning in Physics and the Physics of Learning Institute for Pure and Applied Mathematics at UCLA <ul style="list-style-type: none">Attended 5 week-long workshops on various topicsParticipated in working groups (coarse-graining in MD, dynamical systems, ML with constraints, model discovery) Graduate Student Research Assistant UC Davis Physics Department Supervisor: Prof. Emilija Pantic Undergraduate Thesis Research Project Yale University Physics Department Thesis Advisor: Prof. Daniel McKinsey Perspectives on Science and Engineering Summer Research Yale University Physics Department Supervisor: Prof. Jack Sandweiss	September 2016- present September to December 2019 Spring Quarter 2016 May 2014 to May 2015 April to July 2012
TEACHING EXPERIENCE	Teaching Assistant for Network Theory (UC Davis ECS/MAE 253) Responsibilities included holding office hours for students of different academic backgrounds, grading homeworks and exams, assisting with group projects. Teaching Assistant for General Physics (UC Davis Phys 7A, 7B, 7C) Responsibilities included teaching the discussion and lab session, grading, attending weekly TA meetings, holding weekly office hours and a final review session.	Spring Quarter 2018 September 2015 to December 2016
SCHOLARSHIPS	<ul style="list-style-type: none">UC Davis Physics Department FellowshipAndrew Serge Gagarin ScholarshipMichele Dufault Endowment Fund for Yale Women in Science ScholarshipPerspectives of Science and Engineering (PSE) Summer Research Scholarship	Fall 2020 2012-2014 2013-2014 2012

CONFERENCE PRESENTATIONS	<ul style="list-style-type: none"> • Annual Conference on Complex Systems, held remotely • Conference on Complex Networks and their Applications, held remotely • NetSci TopoNets satellite, held remotely • Dynamics Days Digital, held remotely • SIAM AN20, held remotely • Dynamics Days, Hartford, CT • IPAM seminar series, Los Angeles, CA • NetSci ISODS satellite meeting, Burlington, VT • NetSci, Burlington, VT • SIAM DS19, Snowbird, UT • Dynamics Days, Evanston, IL • APS Far West, Fullerton, CA 	<p>December 2020</p> <p>December 2020</p> <p>September 2020</p> <p>August 2020</p> <p>July 2020</p> <p>January 2020</p> <p>November 2019</p> <p>May 2019</p> <p>May 2019</p> <p>May 2019</p> <p>January 2019</p> <p>October 2018</p>
CONFERENCE POSTERS	<ul style="list-style-type: none"> • Dynamics Days, Evanston, IL • Dynamics Days, Denver, CO 	<p>January 2019</p> <p>January 2018</p>
SUMMER SCHOOLS & SEMINAR SERIES	<p>Santa Fe Institute Complexity Summer School</p> <ul style="list-style-type: none"> • Attended lectures and participated in discussions on complex behavior in mathematical, physical, living, and social systems • Participated in interdisciplinary group research projects (e.g., data-driven approaches to cardiac dynamics) <p>Understanding and Exploring Network Epidemiology in the Time of Coronavirus (Net-COVID) seminar series</p> <ul style="list-style-type: none"> • Attended weekly seminars and discussion series • Participated in a reading group on adaptive networks in epidemiology <p>Lake Como School "Complex Networks: Theory, Methods and Applications" (6th edition)</p> <ul style="list-style-type: none"> • Accepted, did not attend due to cancellation 	<p>June to July 2018</p> <p>April 2020</p> <p>cancelled, originally scheduled for May 2020</p>
PUBLICATIONS	<p>Published</p> <ul style="list-style-type: none"> • Salova, A., and D'Souza, R. M. (2020). Decoupled synchronized states in networks of linearly coupled limit cycle oscillators. <i>Physical Review Research</i>, 2(4), 043261. • Salova, A., Emenheiser, J., Rupe, A., Crutchfield, J. P., and D'Souza, R. M. (2019). Koopman operator and its approximations for systems with symmetries. <i>Chaos: An Interdisciplinary Journal of Nonlinear Science</i>, 29(9), 093128. • Matheny, M. H., Emenheiser, J., Fon, W., Chapman, A., Salova, A., Rohden, M., Li, J., Hudoba de Badyn, M., Posfai, M., Duenas-Ororio, L., Mesbahi, M., Crutchfield, J. P., Cross, M. C., D'Souza, R. M., and Roukes, M. L. (2019). Exotic states in a simple network of nanoelectromechanical oscillators. <i>Science</i>, 363(6431), eaav7932. <p>Preprints</p> <ul style="list-style-type: none"> • Emenheiser, J., Salova, A., Snyder, J., Crutchfield, J.P., and D'Souza, R.M. (2020). Network and Phase Symmetries Reveal That Amplitude Dynamics Stabilize Decoupled Oscillator Clusters. <i>arXiv preprint arXiv:2010.09131</i>. <p>In preparation</p> <ul style="list-style-type: none"> • Salova, A., D'Souza, R. M. Cluster synchronization in systems with higher order interactions. 	
JOURNAL REFERENCE SERVICE AND OUTREACH	<p>Physical Review E, Nature Communications</p> <ul style="list-style-type: none"> • Peer mentor, UC Davis Physics mentorship program • Volunteer at 2019 APS Conferences for Undergraduate Women in Physics (CUWiP) at UC Davis • Member of the UC Davis Physics Diversity and Inclusion group 	
PUBLIC TALKS	<i>How stable is the solar system</i> , Astronomy on Tap in Davis, 2019	