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The Dynamical Systems Laboratory (DSL) in the Department of Mechanical and Aerospace Engineering at the New York University Tandon School of Engineering is seeking to recruit one **Post-Doctoral fellow** and multiple **Ph.D. students** (<http://faculty.poly.edu/~mporfiri/index.htm>).

The research will be conducted under the supervision of Prof. Porfiri, director of the DSL. He received the M.Sc. and Ph.D. degrees in Engineering Mechanics from Virginia Tech in 2000 and 2006; a “Laurea” in Electrical Engineering (with honors) and a Ph.D. in Theoretical and Applied Mechanics from the University of Rome “La Sapienza” and the University of Toulon (dual degree program) in 2001 and 2005, respectively. From 2005 to 2006 he held a Post-Doctoral position with the Electrical and Computer Engineering Department at Virginia Tech. He has been a member of the Faculty of the Mechanical and Aerospace Engineering Department of New York University Tandon School of Engineering since 2006, where he is currently a Professor. Full list of current projects can be found here: <http://faculty.poly.edu/~mporfiri/Projects.htm>. Prof. Porfiri is the author of more than 200 journal publications (h-index 39 from Google Scholar); he is the recipient of the NSF CAREER award (Dynamical Systems program) in 2008; he has been included in the “Brilliant 10” list of Popular Science in 2010; he has been invited to the Frontiers of Engineering Symposium and the Japan-America Frontiers of Engineering Symposium organized by National Academy of Engineering in 2011 and 2014, respectively; he has received the Outstanding Young Alumnus award by the college of Engineering of Virginia Tech in 2012; he has been awarded the ASME Gary Anderson Early Achievement in 2013; he has received the Dynamic Systems and Controls ASME Young Investigator Award in 2013; and has been honored with the ASME C.D. Mote, Jr. Early Career Award in 2015. (https://en.wikipedia.org/wiki/Maurizio_Porfiri).

The responsibilities of the Post-Doctoral fellow include: i) performing high-quality **theoretical and experimental research in dynamical systems**, especially focusing on human-machine interactions, information theory, and network science; ii) developing computer codes for network analysis and software infrastructures to perform hypothesis-driven studies in human behavior, iii) developing new research plans, involving theory and experiments, and co-author research proposals; iv) supervising and/or training undergraduate or graduate students; v) authoring professional presentations, professional reports, and publications; and vi) presenting research at professional conferences. Post-Doctoral candidates are expected to have i) a Ph.D. in Engineering, Mathematics, or Physics; ii) demonstrated ability to conduct original research as evidenced by high-quality journal publications; iii) outstanding English language oral and written communication skills; iv) a strong work ethic with the ability to work independently as well as in a research group; and v) evidence of good project/laboratory management skills. Compensation includes a competitive stipend based on the candidate’s experience.

Ph.D. student candidates are expected to have a solid research experience in one or more subjects listed above and have an M.Sc. or equivalent degree in Engineering, Mathematics, or Physics. Outstanding candidates with a B.Sc. are also encouraged to apply. Compensation includes full tuition coverage and a competitive stipend. Multiple positions are available in the areas of **dynamical systems, robotics, and theoretical mechanics** (including animal behavior modeling, biologically inspired robotics, fluid mechanics, human-machine interactions, information theory, multiphysics modeling, network science, and nonlinear dynamics). Intellectual curiosity, capabilities to work independently and in teams, and desire to learn across fields are viewed very positively.

Candidates are encouraged to apply via email to Prof. Porfiri (mporfiri@nyu.edu). Applications should include a curriculum vitae and a one page statement of past research experience. Review of applications will begin immediately and will be accepted on a rolling basis. The positions are expected to start as early as January 2016.