The 2017 NYU Tandon Research Expo features demonstrations from each of our departments at the faculty, graduate and undergraduate level, in our K-12 STEM initiative, and highlights cross-institutional projects, the Media Lab, and companies from our thriving incubators.

**Chemical and Biomolecular Engineering**
- 13 Lab Lessons
- 14 Chem E Car
- 15 Acetone Butanol Ethanol Fermentation/Extraction Process
- 16 Engineered Responsive Protein Hydrogels For Therapeutic Delivery
- 17 DNA Diagnostics
- 18 Microfluidics: From Visualization to Trapping Methane onto Coffee Grounds
- 19 Digital fabrication of concrete
- 20 Data-driven spatial-temporal dynamical equilibrium matching models for New York City taxi and Uber markets
- 21 Facility operations using eye tracking
- 22 The Quantified Community
- 23 Take a look in the eye
- 24 Maturaion Trajectory of Infant Brain Connectivity
- 25 Querying and Exploring Polygamous Relationships in Urban Spatio-Temporal Data Sets
- 26 Memex Project: Fighting Against Human Trafficking
- 27 Crash Simulator
- 28 PolyPassword-Hasher
- 29 Minidungeons 2: MCTS Personas
- 30 Urbanbe
- 31 4D shape modeling with applications to brain growth research

**Civil and Urban Engineering**
- 32 NYU Tandon K12 STEM Initiatives
- 33 Wiley Ebook Assessment
- 34 Existence and computation of spinning solitons
- 35 Q-Vortices: Existence and computation
- 36 PIF LAB
- 37 A friction machine for human joint substitutes
- 38 Computational fluid dynamics: Assisting NASA with the First Extraterrestrial Submarine in the History of Mankind
- 39 Role of Smartphones in Healthcare Technology
- 40 Knowledge is (Meta)biotic: Power; How Much Energy Do You Consume?
- 41 A smartphone interface-operated intuitive and intelligent mobile robotic system to assist disabled humans in daily living based on human's intent recognition
- 42 Tot-Bot
- 43 Sensing and energy harvesting by ionic polymer metal composites
- 44 Hull slamming
- 45 Computational experiments of zebrafish swimming
- 46 Mechatronics & Robotics @ NYU Tandon
- 47 Mobile Mixed Reality Control of Robot Swarms
- 48 PhD Candidate
- 49 Fish-robot interactions
- 50 Testing middle school math and science lessons using low-cost robotics kits

**Computer Science and Engineering**
- 51 NYU Libraries - Bern Dibner Library
- 52 Mathematics
- 53 Mechanical and Aerospace Engineering
- 54 Electrical and Computer Engineering
- 55 Technology Management and Innovation
- 56 Technology, Culture and Society
- 57 S.S. Columbia Project
- 58 Walk’Em
- 59 NYU FREEEdge
- 60 Googling Corruption The City Record and Historical Big Data
- 61 Peel Back the layers.
- 62 Requerimiento VR
- 63 FANTASY ELECTION
- 64 Ana’s story: creative network of invisible stories
- 65 Peace
- 66 Virtual Reality for Peace
- 67 NYU Tandon Research Lab VR
- 68 The Holographic Portfolio: New Ways of Experiencing Art Works on the HoloLens
- 69 The Lenore Project - Augmented Reality