

## **Unit Name**

Micro/Bio/Nanofluidics Unit  
Professor Amy Q Shen

## **Collaborations**

Riccardo Funari, Scuola Superiore Sant'Anna, Italy, Multiplexed opto-microfluidic biosensing: advanced platform for prostate cancer detection

Vincenzo Calabrese, Polymat, Spain, Multiple projects

Atsushi Matsumoto, University of Fukui, Japan, Multiple projects

Marco E. Rosti, OIST, Japan, Multiple projects

Gareth McKinley, MIT, USA, Multiple projects

Hsieh-Fu Tsai, CGU BME Taiwan, Taiwan, Impact of dcEF on microRNA profiles in glioblastoma and exosomes using a novel microfluidic bioreactor

Riku Takahashi, NTT, Japan, Microfluidic Hydrogel Devices for Disease Modelling

Aya Tanaka, NTT, Japan, Microfluidic Hydrogel Devices for Disease Modelling

Luca Fiorin, Politecnico Milano, Italy, Microfluidic Collagen Droplets Encapsulating Human Dermal Papilla Cells for Hair Follicle Germ Regeneration, Biosensing, and Cryopreservation

Prof. Junji Fukuda, Yokohama National University, Japan, Microfluidic Collagen Droplets Encapsulating Human Dermal Papilla Cells for Hair Follicle Germ Regeneration, Biosensing, and Cryopreservation

Prof. Emilio Satoshi Hara, Okayama University, Japan, Development of an integrated biosensor system and its application to cancer research under Challenging Research (Budding Researchers) grant

## **Research Personnel**

Simon Haward, Senior Staff Scientist

Mark Sullivan, Staff Scientist

Rui Luo, Postdoctoral Scholar

Ricardo Arturo Lopez de la Cruz, Postdoctoral Scholar

Perrine Lasserre, Postdoctoral Scholar

Kazumi Toda-Peters, Research Unit Technician

Prof. Peter Fischer, Visiting Researcher

Yuto Yokoyama, JSPS Postdoc Fellow

Kohei Abe, JSPS Postdoc Fellow

Hiromu Josha, RUA

Jiangming Wu, PhD Student

Fabian Hillebrand, PhD Student

Mauricio Andres Rios Maciel, PhD Student

Tamara Iakimova, PhD Student

Shunsuke Ono, PhD Student  
Teresa Bosch Tamayo, PhD Student  
Arisa Yokokoji, PhD Student  
Nozomi Matsudaira, Rotation PhD student  
Tobias Hrovat, Rotation PhD student  
Selene Margherita Cecile Cannelli, Research Intern  
Francesca Sama, Research Intern  
Charles Luke Hutchinson, Research Intern  
Nolan Andrew Miller, Research Intern  
Miya Christina Klein, Research Intern  
Hanama Akazawa, Research Intern  
Max Paul Maricus Wolters, Research Intern  
Imen Boumar, Visiting Research Student

### ***Scholarly Contributions and Creative Productions (by Faculty)***

#### ***Conference Proceedings***

1. Funari, R.; Armaghan Ayaz, R. M.; Oton, C. J.; Shen, A. Q.; Di Pasquale, F.  
Optomicrofluidic Platforms for Rapid and Sensitive Detection of Biomarkers in Medical Diagnostics. In *Frontiers in Biological Detection: From Nanosensors to Systems XVII 2025*; 2025; Vol. 13338.

#### ***Journal Article***

1. Abe, K.; Shen, A. Q.  
Drying-Induced Packing and Coalescence of Monodisperse Oil Droplets in Aqueous Suspensions. *Langmuir* 2025, 42, 1147–1158.  
<https://doi.org/10.1021/acs.langmuir.5c05263>
2. Shen, A. Q.; Haward, S. J.; Recktenwald, S. M.; Calabrese, V.; Natale, G.  
Colloidal Rod Dynamics under Large Amplitude Oscillatory Extensional Flow. *Soft Matter* 2026, 22, 1389–1401.  
<https://doi.org/10.1039/D5SM01122A>
3. Matsumoto, A.; Yoshizawa, R.; Shen, A. Q.; Funari, R.; Urakawa, O.; Inoue, T.  
Revealing Intrinsic Electric Double Layer Viscoelasticity in Ionic Liquid Solutions via Quartz Crystal Microbalance. *Soft Matter* 2025, 22, 84–94.  
<https://doi.org/10.1039/D5SM00877H>
4. Sullivan, M. V.; Klein, M.; Mohan, J. M.; Shen, A. Q.  
Highly Sensitive, Real-Time Cortisol Sensing with Molecularly Imprinted Polymer Nanoparticles on Graphene Electrodes in a Microfluidic Biosensor. *Talanta* 2025, 299, 129141.  
<https://doi.org/10.1016/j.talanta.2025.129141>
5. Bosch-Tamayo, T.; Iakimova, T. M.; Shen, A. Q.; Sullivan, M. V.  
Solid-Phase Engineering of Molecularly Imprinted Nanoparticles (NanoMIPs): How Template and Solid-Phase Drive Polymer Composition and Binding Performance. *Journal of Materials Chemistry B* 2025, 13, 15047–15056.  
<https://doi.org/10.1039/D5TB01580D>
6. Mehta, S. K.; Kumar, S.; Shen, A. Q.; Mondal, P. K.

- Paper-Based Microfluidics: Analyte-Driven Imbibition under the Lens. *Biomicrofluidics* 2025, 19, 034104.  
<https://doi.org/10.1063/5.0263749>
7. Hillebrand, F.; Hill, R. J.; Davoodi, M.; Haward, S. J.; Shen, A. Q.; Poole, R. J.; Varchanis, S.  
Flat Elastic Disc Suspensions Are Indistinguishable from Solutions of Long Flexible Polymers within Planar Incompressible Flows. *Physical review letters* 2025, 135.  
<https://doi.org/10.1103/pmsq-b1th>
  8. Wankawala, D. H.; Shen, A. Q.; Mondal, P. K.  
Enhanced Droplet Breakup Dynamics via Magnetic Force Assistance: Unveiling Mixed Splitting Mode. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences* 2025, 481.  
<https://doi.org/10.1098/rspa.2024.0594>
  9. Nardone, S.; Haward, S. J.; Shen, A. Q.; Calabrese, V.  
Capillary-Driven Thinning of DNA Solutions. *Rheologica Acta* 2025, 64, 531–540.  
<https://doi.org/10.1007/s00397-025-01510-1>
  10. Recktenwald, S. M.; John, T. P.; Shen, A. Q.; Poole, R. J.; Fonte, C. P.; Haward, S. J.  
Large Amplitude Oscillatory Extension (LAOE) of Dilute Polymer Solutions. *Journal of Non-Newtonian Fluid Mechanics* 2025, 342.  
<https://doi.org/10.1016/j.jnnfm.2025.105421>
  11. Matsumoto, A.; Kato, I.; Zhang, C.; Sugihara, S.; Maeda, Y.; Scheffold, F.; Shen, A. Q.  
Microrheological Study on the Entanglement Dynamics of Salt-Free Polyelectrolyte Solutions in the Semidilute Entangled Regime. *Polymer Journal* 2025, 57.  
<https://doi.org/10.1038/s41428-025-01079-9>
  12. Aulnette, M.; Burshtein, N.; Banaei, A. A.; Brandt, L.; Haward, S. J.; Shen, A. Q.; Delmotte, B.; Lindner, A.  
Transport of Spherical Microparticles in a 3D Vortex Flow. *Physical Review Fluids* 2025, 10, 12, 124201  
<https://doi.org/10.48550/arXiv.2506.02820>
  13. Zhang, T.; Zhou, T.; Shen, A. Q.; Li, M.; Yang, Y.; Hosokawa, Y.; Yalikul, Y.; Cui, Q.; Feng, X.; Feng, S.; Tian, G.  
Active Microfluidic Platforms for Particle Separation and Integrated Sensing Applications. *ACS Sensors* 2025, 10, 5299–5313.  
<https://doi.org/10.1021/acssensors.5c01896>
  14. Calabrese, V.; Shen, A. Q.; Haward, S. J.  
Effects of Polydispersity and Concentration on Elastocapillary Thinning of Dilute Polymer Solutions. *Physical Review X* 2025, 15.  
<https://doi.org/10.1103/PhysRevX.15.021025>

### ***Patent and Intellectual Property***

1. Shen, A. Q.; Sullivan, M.; Tanaka, A.; Takahashi R.  
Method for Producing Microfluidic Channels and Associated Devices
2. Shen, A. Q.; Sullivan, M.  
A Method for Producing Molecularly Imprinted Polymer Nanoparticles, a Molecularly Imprinted Polymer Nanoparticle, the Same, A Component and Device.

### ***Presentation at Conference***

1. Shen, A. Q.  
Next-Generation Microfluidic Biosensing: Integrating LSPR, Synthetic Receptors, and Functionalized 3D-Printed Platforms. *Microfluidics for Biomedical Innovation 2026* 2025.

2. Shen, A. Q.  
Coupling Rheology and Microfluidics: Viscoelastic Instabilities and Emergent Flow Phenomena. 96th Society of Rheology Annual Meeting 2025.
3. Shen, A. Q.  
Transformative Microfluidic Technologies: From Fluid Instabilities to Advancing Biosensing Diagnostics . University of Houston 2025.
4. Shen, A. Q.  
The 62nd National Heat Transfer Symposium/HTSJ International Heat Transfer Symposium 2025.
5. Shen, A. Q.  
Fundamental Mechanics for Future Microfluidics, IUTAM 2025.
6. Shen, A. Q.  
Microfluidics and Biosensors: Unlocking New Possibilities in Biophysics and Diagnostics. Microfluidics for Biomedical Innovation 2025 2025.
7. Shen, A. Q.  
Discovering Serendipity: Viscoelastic Instabilities, Microfluidics, and Their Interdisciplinary Applications (plenary). FLOW Annual Meeting 2025.

### **Seminars**

1. Shen, A. Q.  
Innovative Microfluidic Platforms: From Viscoelastic Fluid Dynamics to Advanced Biosensing. 2025.

### **Scholarly Contributions (by Unit Members)**

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Mark V Sullivan	Journal Article	Development of molecularly imprinted polymers for the detection of human chorionic gonadotropin	Scientific Reports	Nature Publishing Group UK	2025
Mark V Sullivan	Journal Article	Stimuli-responsive molecularly imprinted materials: fundamentals and applications	Responsive Materials	Wiley	2025
Mark V Sullivan	Journal Article	Incorporation of polymerizable linkers into aptamers for high-affinity nanoscale molecularly imprinted polymer hybrids: analysis of positional selectivity	Journal of Materials Chemistry B	Royal Society of Chemistry	2025
Mark V Sullivan	Journal Article	Molecularly imprinted hydrogels in drug delivery	Hydrogels in Drug Delivery	Elsevier	2025
Simon Haward	Journal Article	The effects of viscoelasticity and shear thinning on the inertial instability and mixing performance in a T-channel geometry	Journal of Non-Newtonian Fluid Mechanics	Elsevier	2026
Mark V Sullivan	Journal Article	Phage display against 2D metal–organic nanosheets as a new route to highly selective biomolecular recognition surfaces	Small	Wiley	2025
Mark V Sullivan	Journal Article	Optimised solution-phase synthesis of nanoMIPs for protein detection in electrochemical diagnostics	Biomedical Materials	IOP Publishing	2025

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Shunsuke Ono	Other Scholarly Work	iGEM			
Jiangming Wu	Other Scholarly Work	Reviewed one paper for the European Journal of Mechanics - B-Fluids			
Simon Haward	Poster Presentation at Conference	Exploring multi-stability in three-dimensional viscoelastic flow around a free stagnation point	BSR-INNFM Spring Workshop, Wirral, UK		
Fabian Hillebrand	Poster Presentation at Conference	Relating Oldroyd-A and Oldroyd-B in planar incompressible flows	AERC, Lyon, France		
Arisa Yokokoji	Poster Presentation at Conference	Viscoelastic fluid-structure interactions in arrays of flexible cylinders	OISTxJST [Complex Flow] workshop, Okinawa, Japan		
Jiangming Wu	Poster Presentation at Conference	Enhancing Rheology and Printability of Fruit and Vegetable-Based Inks with Microalgae-Derived Polysaccharides for 3D Food Printing	Annual European Rheology Conference (AERC), Lyon, France		
Teresa Bosch-Tamayo	Poster Presentation at Conference	A Guide to Tweaking the Next Generation of Recognition Materials for Biosensing Applications	Lab-on-a-Chip & Microfluidics Asia, Organoids & Organ-on-a-Chip Asia 2025 Conference		
Tamara Iakimova	Poster Presentation at Conference	Surface imprinted polymers based on 3D printing resin for selective bacteria detection	COI-NEXT Annual Symposium		
Tamara Iakimova	Poster Presentation at Conference	Accessible 3D-printed Microfluidic System for Bioenvironment Simulation	Lab-on-a-Chip & Microfluidics Asia, Organoids & Organ-on-a-Chip Asia 2025 Conference		
Mark Sullivan	Poster Presentation at Conference	Low-Cost Cortisol Detection for Stress Monitoring	COI-Next Annual Symposium		
Simon Haward	Poster Presentation at Conference	Exploring multi-stability in three-dimensional viscoelastic flow around a free stagnation point	8th OIST x Keio Showcase Talk Series: Twist, Flow and Instability, Keio University, Tokyo		
Ricardo Arturo Lopez de la Cruz	Poster Presentation at Conference	Canopy elastic turbulence, what have we learned so far?	10th OIST-Keio Joint Symposium		
Simon Haward	Poster Presentation at Conference	Large Amplitude Oscillatory Extension (LAOE) of complex fluids	AERC, Lyon, France		
Simon Haward	Poster Presentation at Conference	Large Amplitude Oscillatory Extension (LAOE) of complex fluids	BSR-INNFM Spring Workshop, Wirral, UK		

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Mauricio Andres Rios Maciel	Presentation at Conference	Understanding coral bleaching effects on the rheology and flow of the surface mucus layer	Annual European Rheology Conference (AERC), Lyon, France		
Kohei Abe (JSPS fellow)	Presentation at Conference	Deformation and coalescence of monodispersed droplets	15th Asian Coating Workshop		
Perrine Lasserre	Presentation at Conference	An Electrochemical Screening Biosensor Utilising Molecularly Imprinted Polymer Advantages For Bacterial Identification	2nd International Workshop on Bioelectrochemistry in Hiroshima		
Kohei Abe (JSPS fellow)	Presentation at Conference	Evaporation-driven deformation and coalescence of particle-stabilized oil droplets in aqueous suspensions	European Coating Symposium 2025		
Kohei Abe (JSPS fellow)	Presentation at Conference	In-situ observations of film formation in a suspension and droplet coalescence in an emulsion	Nottingham Trent University		
Simon Haward	Presentation at Conference	Large Amplitude Oscillatory Extension (LAOE) of complex fluids	96th Society of Rheology (SOR) Annual Meeting, Santa Fe, NM		
Simon Haward	Presentation at Conference	Effects of polydispersity and concentration on elastocapillary thinning of dilute polymer solutions	Japan Society of Fluid Mechanics (JSFM) Annual Meeting, Osaka, Japan		
Simon Haward	Presentation at Conference	Large Amplitude Oscillatory Extension (LAOE) of complex fluids	9th Asia-Pacific Rim Conference on Rheology (A-PRCR), Kobe, Japan		
Ricardo Arturo Lopez de la Cruz	Presentation at Conference	Canopy elastic turbulence: Effects of canopy height and shear thinning	9th Asia-Pacific Rim Conference on Rheology (A-PRCR), Kobe, Japan		
Arisa Yokokoji	Presentation at Conference	Viscoelastic fluid-structure interactions in arrays of flexible cylinders	9th Asia-Pacific Rim Conference on Rheology (A-PRCR), Kobe, Japan		
Simon Haward (IM Pincus)	Presentation at Conference	Numerical analysis of extensional rheology of polydisperse polymer solutions	AERC, Lyon, France		
Simon Haward	Presentation at Conference	Effects of polydispersity and concentration on elastocapillary thinning of dilute polymer solutions	Annual European Rheology Conference (AERC), Lyon, France		
Simon Haward (V Calabrese)	Presentation at Conference	Mono-, bi- and polydisperse semi-flexible polymers in capillary-driven extensional flows	AERC, Lyon, France		
Shunsuke Ono	Presentation at Conference	Flow-induced Target Release from MIP Microparticles in a 3D-Printed Microfluidic Device	Lab-on-a-Chip & Microfluidics Asia, Organoids & Organ-on-a-Chip Asia 2025 Conference		

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Mark V Sullivan	Presentation at Conference	Engineering Synthetic Recognition Materials for Electrochemical Biosensing and Diagnostics	The 93rd Annual Meeting The Electrochemical Society of Japan, Tokyo, Japan		
Mark V Sullivan	Presentation at Conference	Using High Performing Synthetic Recognition Materials for Developing Low-Cost Point-of-Care Devices	2nd International Workshop on Bioelectrochemistry in Hiroshima		
Mark V Sullivan	Presentation at Conference	Using High Performing Synthetic Recognition Materials for Developing Low-Cost Point-of-Care Devices	Lab-on-a-Chip & Microfluidics Asia, Organoids & Organ-on-a-Chip Asia 2025 Conference		
Mark V Sullivan	Presentation at Conference	Using High Performing Synthetic Recognition Materials for Developing Low-Cost Point-of-Care Devices	Biosensors 2025 at CCL Lisbon, Portugal		
Rui Luo	Presentation at Conference	our investigation of viscoelastic flow instabilities in one-dimensional micro-post arrays, where we combine microfluidic experiments, high-speed imaging, and quantitative flow analysis to understand how elastic stresses and geometric confinement drive flow transitions from steady laminar flow to complex spatiotemporal behavior	10th OIST-Keio Joint Symposium		
Arisa Yokokoji	Presentation at Conference	Viscoelastic fluid-structure interactions in arrays of flexible cylinders	AERC, Lyon, France		
Jiangming Wu	Presentation at Conference	Decoupling Shear and Extensional Rheology in Yield Stress Fluids for Enhanced 3D printing	AERC, Lyon, France		
Mark V Sullivan	Presentation at Conference	Engineering Synthetic Recognition Materials for Electrochemical Biosensing and Diagnostics	The 93rd Annual Meeting The Electrochemical Society of Japan, Tokyo, Japan		
Kohei Abe (JSPS fellow)	Presentation at Conference	Compression dynamics of particle-stabilized droplets during drying of a continuous phase	62nd HTSJ International Heat Transfer Symposium		
Fabian Hillebrand	Presentation at Conference	Relating Oldroyd-A and Oldroyd-B in planar incompressible flows	the 9th Asia-Pacific Rim Conference on Rheology (A-PRCR2026) in Kobe, Japan		
Ricardo Arturo Lopez de la Cruz	Presentation at Conference	Canopy elastic turbulence, what have we learned so far?	10th OIST-Keio Joint Symposium		
Simon Haward	Seminars	Effects of polydispersity and concentration on elastocapillary thinning of dilute polymer solutions	OIST x JST minisymposium, Okinawa, Japan		

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Mark V Sullivan	Seminars	Smart Materials and Biomimicry: Pioneering Technologies Reshaping the Future of Healthcare	Invited Speaker, The University of Sheffield, Sheffield, UK		
Simon Haward (V Calabrese)	Seminars	Effect of polymer flexibility, concentration and polydispersity on the capillary-driven thinning of fluids	9th Asia-Pacific Rim Conference on Rheology (A-PRCR), Kobe, Japan		
Mark V Sullivan	Seminars	Smart Materials and Biomimicry: Pioneering Technologies Reshaping the Future of Healthcare	Invited Speaker, The University of Strathclyde, Glasgow, UK		
Simon Haward	Seminars	Effects of polydispersity and concentration on elastocapillary thinning of dilute polymer solutions	British Society of Rheology-Institute of Non-Newtonian Fluid Mechanics Spring Workshop, Wirral, UK		

### **Honors, Awards & Fellowships**

Term 3 2025 - Ongoing	Forbes JAPAN's "Women in Tech 30", フォーブスが選ぶ世界を変革する女性テックリーダー30人 [Fiscal Year: 2025]
Term 2 2025 - Ongoing	Annual FLOW Lecturer, アニュアルフローレクチャー, 2025, KTH [Fiscal Year: 2025-01-01]
Term 2 2022 - Ongoing	The Society of Rheology Fellows, ソサエティーオブレオロジーフェロー, 2022, The Society of Rheology [Fiscal Year: 2022-04-01]
Term 2 2022 - Ongoing	Excellence in Mentoring Award, エクセレンスインメンタリングアワード, 2022, OIST [Fiscal Year: 2022-04-01]
Term 1 2021 - Ongoing	APS Fellow, APS フェロー, 2021, American Physical Society [Fiscal Year: 2021-09-01]
Term 3 2021 - Ongoing	Fellow of the Royal Society of Chemistry, フェローオブロイヤルソサエティーオブケミストリー, 2021, Royal Society of Chemistry [Fiscal Year: 2021-04-01]
Term 2 2019 - Ongoing	Annual Bergveld Lecturer, アニュアル Bergveld レクチャー, 2019, University of Twente [Fiscal Year: 2019-04-01]
Term 2 2008 - Ongoing	Best paper award, ベストペーパーアワード, 2008, Particle Technology Forum, AIChE meeting [Fiscal Year: 2008-04-01]
Term 2 2003 - Ongoing	Ralph E. Powe Junior Faculty Enhancement Award, Ralph E. Powe ジュニアファカルティーエンハンスメントアワード, 2003 [Fiscal Year: 2003-04-01]

### **Honors, Awards & Fellowships [By Unit Members Only]**

Term 1 2025 - Term 1 2025	Mark V Sullivan, Best Presentation Award, 2nd International Workshop on Bioelectrochemistry, Hiroshima, Japan, [Fiscal Year: 2025-09-01]
Term 1 2025 - Ongoing	Shunsuke Ono

Gold award in iGEM 2025 Grand jambory , iGEM 2025 [Fiscal Year: 2025]

### **External Service**

Term 2 2024 - Ongoing	APS-DFD Member-at-Large, APS [Fiscal Year: 2024-01-01]
Term 2 2022 - Term 1 2025	Editorial Board, Journal of Rheology [Fiscal Year: 2022-01-01]
Term 2 2020 - Ongoing	Editorial Advisory Board, ACS Biosensors [Fiscal Year: 2020-01-01]
Term 2 2020 - Ongoing	Associate Editor, Soft Matter [Fiscal Year: 2020-04-01]
Term 2 2019 - Ongoing	Editorial Advisory Board, Biomicrofluidics [Fiscal Year: 2019-01-01]
Term 2 2019 - Ongoing	Editorial Board, VIEW [Fiscal Year: 2019-01-01]
Term 2 2017 - Term 1 2025	Editorial Board, Physics of Fluids [Fiscal Year: 2017-01-01]

### **Other Institutional Service**

Term 2 2025 – Ongoing	Vice-CEO and Board of Governors (University) [Fiscal Year: 2025-04-01]
Term 1 2022 - Ongoing	Provost, (University) [Fiscal Year: 2025-05-01]
Term 2 2022 - Term 1 2025	Board of Councils, (University) [Fiscal Year: 2025-05-01]

### **Outreach Activities [For Unit Members Only]**

Term 2 2026	Perrine Lasserre, Mentoring Short-Term internship for SCORE! Award-Winning High School Students, OIST [Fiscal Year: 2026-03-24]
Term 2 2026	Teresa Bosch Tamayo, Mentoring Short-Term internship for SCORE! Award-Winning High School Students, OIST [Fiscal Year: 2026-03-24]
Term 2 2026	Jiangming Wu, Mentoring Short-Term internship for SCORE! Award-Winning High School Students, OIST [Fiscal Year: 2026-03-24]
Term 2 2026	Mark Sullivan, Mentoring Short-Term internship for SCORE! Award-Winning High School Students, OIST [Fiscal Year: 2026-03-24]
Term 2 2026	Tamara Iakimova, Mentoring Short-Term internship for SCORE! Award-Winning High School Students, OIST [Fiscal Year: 2026-03-24]
Term 2 2026	Jiangming Wu, Campus tour for high school students from Hokkaido, OIST [Fiscal Year: 2026-01-27]
Term 1 2025	Jiangming Wu, Poster sessions & interview with students from Kanagawa Hakuyo School visit, OIST [Fiscal Year: 2025-10-02]
Term 1 2025	Ricardo Arturo Lopez de la Cruz, Live demo to kids from the CDC, OIST [Fiscal Year: 2025-09-01]
Term 1 2025	Ricardo Arturo Lopez de la Cruz, Ricardo's Scientific path (リカルドの科学的歩み), OIST [Fiscal Year: 2025-12-01]
Term 1 2025	Jiangming Wu, Poster sessions & interview with students from Yokohama Science Frontier School visit, OIST [Fiscal Year: 2025-10-22]
Term 1 2025	Perrine Lasserre, (Bio)sensing - Introduction to sensors around us and quick demonstration of potentiostat assembly and measurement to high school students, OIST [Fiscal Year: 2025-10-01]
Term 1 2025	Jiangming Wu, OIST Innovation event for industry audience (5-min pitch and networking), OIST [Fiscal Year: 2025-11-21]

Term 1 2025	Jiangming Wu, Poster sessions & interview with students from Momoyama High School visit, OIST [Fiscal Year: 2025-10-14]
Term 3 2025	Mauricio Andres Rios Maciel, Keio Summer Camp; hands-on lab activity, OIST [Fiscal Year: 2025-08-01]
Term 3 2025	Ricardo Arturo Lopez de la Cruz, A fluid? Surface tension? What is that? (表面張力? それって何?), OIST [Fiscal Year: 2025-07-01]
Term 3 2025	Jiangming Wu, Poster sessions & interview with students from Keio summer school program, OIST [Fiscal Year: 2025-07-31]
Term 3 2025	Jiangming Wu, Poster sessions & interview with students from Tokyo Yamawagi High School visit, OIST [Fiscal Year: 2025-05-09]
Term 3 2025	Arisa Yokokoji, Keio Summer Camp; hands-on lab activity, OIST [Fiscal Year: 2025-08-01]
Term 3 2025	Perrine Lasserre, Career talk for visiting high school students, one in the morning and one in the afternoon, OIST [Fiscal Year: 2025-07-01]

**Workshops and Seminars [Organized and Hosted by Faculty/Units]**

Speaker Name(s)	Title	Location	Date
Takayuki Suzuki	Complex Particle Dynamics in Straight Rectangular Microchannels: Inertial Migration of Cells, Asymmetric Particles, and Soft Materials	OIST	2026-03-05
Richard Hodgkinson	The impasse of strain rate quantification in arbitrary and kinematically mixed flow fields	OIST	2025-09-16
Jarno L. Waeterloos	Sweeping SMaRTER: Advances in Chirp Rheology for Time-Resolved Analysis	OIST	2025-08-19
Jun Eshima	The influence of surfactants on bubble bursting and air-liquid-air sheets	OIST	2025-07-22
Kasra Amini	Tomographic Velocimetry of Time Dependent Flows of Complex Fluids	OIST	2025-07-17
Arben Merkoçi	Nanobiosensors for Diagnostics: Sustainable Point-of-Care Technologies Shaped by Nanotechnology and the REASSURED Framework	OIST	2025-07-08
Sidney Cotton	Engineering Flame-Resistant Polymers and Soft Materials: From Coatings to Rheology	OIST	2025-05-20