

Anis Senoussi

Postdoctoral researcher



anis-senoussi.github.io



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Laboratoire Jean Perrin
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EDUCATION

2016 – 2020	PhD in physics @ Sorbonne Université	PARIS, FRANCE
2015 – 2016	Master's degree in biophysics @ Université Paris Diderot	PARIS, FRANCE
2015	<i>Agrégation*</i> of physical sciences @ ENS de Lyon [*Competitive exam to teach at the postgraduate level]	LYON, FRANCE
2012 – 2016	Bachelor's & master's degree in physics & chemistry @ ENS de Lyon & UCBL	LYON, FRANCE
2009 – 2012	<i>Classes préparatoires*</i> in physics, maths & chemistry @ Lycée Thiers [*University-level preparation for the competitive exams to "grandes écoles"]	MARSEILLE, FRANCE
2009	<i>Baccalauréat*</i> @ Lycée René Char [*High school diploma]	AVIGNON, FRANCE

RESEARCH

CURRENT POSITION:

Sept. 2020 -	Postdoctoral researcher @ Lab. Jean Perrin, IBPS, Sorbonne Université <i>Coupling between an active gel and programmable reaction-diffusion structures</i> Advisors: André Estévez-Torres & Jean-Christophe Galas	PARIS, FRANCE
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PHD THESIS:

2016 - 2020	PhD student @ Lab. Jean Perrin, IBPS, Sorbonne Université <i>Design of molecular systems for artificial pattern formation and gene regulation</i> [.pdf] Advisors: André Estévez-Torres & Jean-Christophe Galas	PARIS, FRANCE
Oct. 2019	[School] Arnold Sommerfeld School on the Physics of Life, LMU	MUNICH, GERMANY
Sept. 2018	[School] EMBO Physics of Integrated Biological Systems, IESC	CARGÈSE, FRANCE
Jun. 2017	[Stay] <i>Purification of protein motors</i> , Francis Crick Institute, Surrey's Lab	LONDON, UK
Dec. 2016	[Stay] <i>High-throughput microfluidic</i> , LIMMS/University of Tokyo, Fujii's Lab	TOKYO, JAPAN

PREVIOUS RESEARCH EXPERIENCES:

2016 (5 mos.)	Intern @ Lab. Jean Perrin, IBPS, Sorbonne Université <i>Cell-free characterization of RNA translational regulators</i> . Supervisor: André Estévez-Torres	PARIS, FRANCE
2014 (4 mos.)	Intern @ FOM Institute AMOLF <i>Actomyosin networks cross-linked by alpha-actinin</i> . Supervisors: Gijsje Koenderink & Nicholas Kurniawan	AMSTERDAM, THE NETHERLANDS
2013 (2 mos.)	Intern @ Physico-Chimie Curie Lab., Institut Curie <i>Perturbations of bacterial concentration waves</i> . Supervisor: Axel Buguin	PARIS, FRANCE
2009 (1 mo.)	Intern @ Plants & cropping Systems in Horticulture Lab., INRA <i>Differentiating moth species using infrared spectroscopy</i> . Supervisor: Myriam Siegwart	AVIGNON, FRANCE

PUBLICATIONS

- [3] Book chapter: "Learning from embryo development to engineer self-organizing materials"**
 Senoussi A., Vyborna Y., Berthoumieux H., Galas J.-C. & Estévez-Torres A.
 2021, in *Out-of-equilibrium supramolecular systems and materials*, Giuseppone N. & Walther A., Wiley-VCH
- [2] Tunable corrugated patterns in an active nematic sheet**
 Senoussi A., Kashida S., Voituriez R., Galas J.-C., Maitra A. & Estévez-Torres A.
 2019, *Proceedings of the National Academy of Sciences*, 116(45), 22464-22470. [article, arXiv]

[1] Quantitative characterization of translational riboregulators using an in vitro transcription-translation system

Senoussi A., Lee Tin Wah J., Shimizu Y., Robert J., Jaramillo A., Findeiss S., Axmann I. M. & Estévez-Torres A.

2018, *ACS Synthetic Biology*, 7(5), 1269-1278. [[article](#), [bioRxiv](#)]**COMMUNICATIONS**

Nov. 2019	[Talk] GDR CellTiss	HYERES, FRANCE
Oct. 2019	[Talk] DNA Nanotechnology Workshop, Sorbonne Université	PARIS, FRANCE
Nov. 2018	[Talk] Internal Seminar, Lab. Jean Perrin	PARIS, FRANCE
Sept. 2018	[Poster] EMBO Physics of Integrated Biological Systems, IESC	CARGESE, FRANCE
Jun. 2018	[Poster] Doctoral School Scientific Day, Sorbonne Université	PARIS, FRANCE
Nov. 2017	[Poster] Rencontres des Jeunes Physicien·ne·s, Collège de France	PARIS, FRANCE
Sept. 2017	[Talk] Joint meeting with Robin's Lab (Cell Dynamic Lab), IBPS	PARIS, FRANCE
Mar. 2017	[Poster] Physical Biology Circle Meeting, EMBL	HEIDELBERG, GERMANY
Dec. 2016	[Talk] Lab meeting at Fujii's Lab, LIMMS/University of Tokyo	TOKYO, JAPAN
Nov. 2016	[Poster] Rencontres des Jeunes Physicien·ne·s, Collège de France	PARIS, FRANCE
Sept. 2016	[Poster] DNA Computing and Molecular Programming, LMU	MUNICH, GERMANY

TEACHING

2016 – 2019	Teaching assistant @ Sorbonne Université Classical mechanics & physics of waves (64h/year)	PARIS, FRANCE
2015 – 2016	Tutorials @ Lycée Saint-Louis Physics for undergraduate students attending <i>classes préparatoires</i> * (25h/year)	PARIS, FRANCE
2012 – 2014	Tutorials in maths, physics, chemistry & biology for high school students (20h/year)	LYON, FRANCE

FELLOWSHIPS

2019 - 2020	1-year funding from ERC (André Estévez-Torres, CNRS)
2016 - 2019	Teaching assistant fellowship from Sorbonne Université
2016 - 2019	Full Ph.D. scholarship from ENS de Lyon
2012 - 2016	Full bachelor and master scholarship from ENS de Lyon

MISCELLANEOUS**PROGRAMMING SKILLS:****Languages:**

[Advanced] Python (with notions in machine learning using Scikit-learn & Keras)
 [Intermediate] Matlab, Mathematica
 [Novice] HTML, CSS, Dart

Edition & design: LaTeX, Microsoft Office,
 Inkscape

Other: ImageJ, Micro-manager, Arduino

RECENT FORMATIONS:

2019 – 2020	First year of law school (distance learning) @ Université Panthéon-Sorbonne	PARIS, FRANCE
May. 2019	Introduction to machine learning (24h) @ Sorbonne Université & ENS Paris	PARIS, FRANCE

OTHER ACTIVITIES:

Oct. 2018	Popularization of sciences: Science Fair 2018, Sorbonne Université	PARIS, FRANCE
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