

Arnold J. T. M. Mathijssen

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EMPLOYMENT

	University of Pennsylvania
Jan 2021–	Assistant Professor of Physics and Astronomy
	Stanford University
2017–2020	Postdoc in Bioengineering, under supervision of Prof <u>Manu Prakash</u> Cross-Disciplinary Fellow, Human Frontier Science Program (HFSP)
	Quantemol Ltd., UK
2010	Research intern, under supervision of Prof <u>Jonathan Tennyson</u> FRS

EDUCATION

	Stanford University
2017–2019	Teaching certificate for postdocs
	University of Oxford, UK
2012–2017	DPhil in Theoretical Physics Thesis: ‘Hydrodynamics of micro-swimmers in complex fluids and environments’ <ul style="list-style-type: none">• Advisor: <u>Prof Julia M Yeomans</u>, FRS• Internal examiner: <u>Prof Ramin Golestanian</u> (now MPI director, Gottingen)• External examiner: <u>Prof Gareth Alexander</u> (Warwick University)
	University College London (UCL), UK
2008–2012	BSc & MSci in Theoretical Physics; 1 st class honours, best overall undergraduate <ul style="list-style-type: none">• MSci Thesis: ‘Determining the quark and gluon composition of the proton’• BSc Thesis: ‘Design of a single-molecule fluorescence microscope system’

HONOURS & AWARDS

2022	New Investigator Research Award , Charles E. Kaufman Foundation
2022	Klein Family Social Justice Award, University of Pennsylvania
2021	Finalist, Pew Biomedical Scholars 2022
2019	Charles Kittel Award , American Physical Society (APS)
2019	Honourable mention, annual symposium, Stanford Polymer Collective
2017	Sir Sam Edwards PhD Thesis Prize , UK Institute of Physics (IoP)
2016	Finalist, Henslow Fellowship, Cambridge Philosophical Society
2012	Scientific American 30 under 30 (aged 21)
2012	Selected to attend the 62 nd Lindau Nobel Laureate Meeting, Bayer Foundation
	Awards by the UCL Faculty of Mathematical and Physical Sciences:
2012	<ul style="list-style-type: none">• Faculty Medal for Academic Excellence
2011	<ul style="list-style-type: none">• Jackson Lewis scholarship
	Awards by the UCL Department of Physics and Astronomy:
2012	<ul style="list-style-type: none">• William Bragg Prize for ‘best overall undergraduate’
2011	<ul style="list-style-type: none">• Prize for ‘best 3rd year group project and presentation’
2011	<ul style="list-style-type: none">• Prize for ‘best performance 3rd year physics’
2010	<ul style="list-style-type: none">• Wood Prize for ‘best performance 2nd year physics’
2009	<ul style="list-style-type: none">• Oliver Lodge Prize for ‘best performance 1st year physics’

SELECTED PUBLICATIONS (see full list on lab website)

1. Mathijssen *et al.*, **Nature** 571: 560 (2019)
2. Ramirez-San Juan *et al.*, **Nature Physics** (2020)
3. Gu *et al.*, **Nat. Mach. Intel.** 4: 678–684 (2022)
4. Mathijssen *et al.*, **Mod. Rev. Phys.** accepted (2023)