

# Peter Pihlmann Pedersen



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## Education

<b>PhD</b>	University of Cambridge, Astrophysics	2018 – 2021
<b>MRes</b>	University of Cambridge, Sensor Technologies	2017 – 2018
<b>MPhys</b>	University of Manchester, Physics, 1:1 <i>with year abroad at the University of California, Davis.</i>	2013 – 2017

## Recent Experience

**Co-founder, Cambike Sensor.** **2018 – present**  
Co-founded a citizen science initiative to dynamically monitor air pollution, road quality, and cycling traffic around cities. See our conference talk [here](#). [www.cambikesensor.net](http://www.cambikesensor.net) for reference.

**Visiting researcher, Bio-Inspired Robotics Laboratory, Cambridge.** **Winter 2018**  
Spent 3 months, under the supervision of Fumiya Iida, building and characterising a multimodal sensing approach for artificial skin in robotics, which provided information about normal/tangential forces, with exciting insights into minimum grip forces for slip detection in soft robotics. See my report [here](#).

### Past Experience

<b>Research Assistant</b>	UCD Tyson Cosmology Group, USA	2015 – 2016
<b>Summer Internship</b>	ESO, Chile	2015
<b>President</b>	University of Manchester Astronomy Society, UK	2014 – 2015
<b>Summer Internship</b>	BP, Manchester, UK	2014

### Misc

<b>Cycling</b>	Cycled from <a href="#">Cambridge to Paris</a> in under 36 hours	2018
<b>Volunteer</b>	Volt, Roskilde Festival, DK	2017
<b>Expedition support</b>	The Oil Adventure <a href="#">documentary</a> , Norway	2016
<b>Physics Tutor</b>	Manchester, UK	2014 – 2015
<b>Scholarship</b>	Arthur Schuster Entrance Scholarship	2013

### Side Projects

Full spectrum camera with Raspberry Pi and DIY robotised telescope	<b>2018 – present</b>
Network traffic analysis for noise control	<b>2018</b>
Arduino based pulse meter, see video <a href="#">here</a>	<b>2017</b>

### Computing Knowledge

Python	C	MATLAB	MySQL	PHP
HTML/CSS	LaTeX	ZEMAX	Bash Scripting	
Embedded Systems	Adobe Creative Suite		AutoDesk Inventor	

### Languages

<b>Language 1</b>	English	<b>Fluent</b>
<b>Language 2</b>	Spanish	<b>Proficient</b>