



To William Demant Fonden

Motivational letter for funding presentation at MLSP 2019

As a part of my PhD project in Active Deep Learning for Nano-sensor Systems in the IDUN Center of Excellence, I am going to present our research resulting in the accepted paper "A Bayesian Generative Model With Gaussian Process Priors For Thermomechanical Analysis Of Micro-Resonators" at the IEEE International Workshop On Machine Learning For Signal Processing (MLSP 2019) [ieeemlsp.cc] in Pittsburgh, US, in the period 11/10/2019-16/10/2019. This work is a part of the overall goal in developing methods for automated design, screening and detection of medicine.

Since the conference location is distant and the most expensive non-student registration is needed to present there, we will need you to cover a bit more than half of the expenses of the PhD Student, Maximillian F. Vording's, connected to attending and travelling to the conference. The presentation and publication of the paper will benefit both the field of de novo drug development and applications and methods of Bayesian machine learning, while expanding the academic network of the PhD student and the two research centers involved (DTU Compute CogSys and DTU Health Tech, IDUN Sensor).

The anonymous reviews of the paper revealed that our topic is a good match for the conference and the approach is well-matched to the technical challenge and a unique addition to the literature.

I hope you can see the benefit of me presenting our work at the conference and will support this with 9.000 DKK.

Best regards,

Maximillian Fornitz Vording

PhD Student

Section for Cognitive Systems