

**Jr.nr.****Ansøgt beløb** 7500

Kongresdeltagelse i udlandet(Conference participation abroad)

**Dato for indsendelse:** 3.1.1

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**ANSØGER**

Navn: Vording, Maximillian Fornitz

Stilling: Ph.d. studerende

Institution: DTU

Institut: Department of Applied Mathematics and Computer Science

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**BESKRIVELSE AF FORMÅL**

The purpose of this application is to cover less than half of the expenses of the PhD Student, Maximillian F. Vording, attending, presenting and travelling to the IEEE International Workshop On Machine Learning For Signal Processing (MLSP 2019) [ieeeemlsp.cc] in Pittsburgh, US, in the period 11/10/2019-16/10/2019. The presentation and publication of the paper, "A Bayesian Generative Model With Gaussian Process Priors For Thermomechanical Analysis Of Micro-Resonators", 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 presenting and the two research centers involved (DTU Compute CogSys and DTU Health Tech, IDUN Sensor).

The motivation for the paper presented:

Thermal analysis using resonating micro-electromechanical systems shows great promise in pharmaceutical research in characterizing physiochemical and mechanical properties of drugs. The paper presented at MLSP 2019 proposes a model, which can give a more precise characterization of the material of the resonator, which is important in practical settings where the number of measurements are limited and the noise level is high. This paper applies gaussian processes to identification of patterns in the thermochemical analysis data.

Reviewers said:

The topic is a good match for the conference.

The paper differentiate the work while also providing references to prior literature.

The approach is well-matched to the technical challenge and a unique addition to the literature.

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**ØKONOMI**

Budgettet er for alle udgifter forbundet med hovedforfatterens deltagelse i konferencen.

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Kongressens navn: IEEE International Workshop on MACHINE LEARNING FOR SIGNAL PROCESSING

By: Pittsburgh, PA, USA

Lufthavn: Pittsburgh, PA, USA (PIT-Pittsburgh Intl.)

Land: USA

Periode: 13.10.2019 - 16.10.2019

Varighed: 4 dage

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<b>Jr.nr.</b>	<b>Ansøgt beløb</b>	7500
Kongresdeltagelse i udlandet(Conference participation abroad)		
<b>Dato for indsendelse:</b>	3.1.1	

**ØKONOMI****Indtægter**

Institutions støtte (Institutions support)	kr. 9.000,00
<b>Sum</b>	<b>kr. 9.000,00</b>

**Udgifter**

Konferencegebyr (Conference fee)	kr. 5.543,00
Travel (flights LHR-PIT PIT-LHR)	kr. 4.262,00
Speciel nedsat rate for MLSP deltagere hos Wyndham Pittsburgh University Center Hotel	kr. 5.696,00
Dagpenge efter tjenesterejseregler(Per diem allowance according to businesstrip rules)	kr. 1.000,00
<b>Sum</b>	<b>kr. 16.501,00</b>

<b>Budgetbalance</b>	<b>kr. 7.501,00</b>
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**DOKUMENTER**

Artikel/Abstract	Dette er den accepterede artikel, som endnu ikke er i fuldkommen kamera-klar version, men vil blive det inden d. 23 Aug., hvor den indsendes til konferencen.
Invitation/accept fra konferencen	Dette er den e-mail, som dokumenterer, at artiklen er accepteret til præsentation ved MLSP 2019 Workshop.
Minimum 50% institutionsstøtte	

**TIDLIGERE ANSØGNINGER**

19-70-1177	Forskningsophold i udlandet på min. 3 mdr.(Research stay abroad of at least 3 months.)	Univ. of Cambridge, Dep. of Engineering, MLGroup	Bevilget
			Bev. beløb: 20.000,00