

# Christopher Andersen

## POSTDOC IN LOCAL-SCALE ATMOSPHERIC MODELING

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ResearchGate: [www.researchgate.net/profile/Christopher-Andersen-7](http://www.researchgate.net/profile/Christopher-Andersen-7)

## Scientific Interests

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I am an atmospheric physicist specializing in the transport, transformation, and decay of atmospheric species that affect human health, climate, and the environment. My work combines high-performance computing, big data analysis, data wrangling & visualization, and advanced numerical & statistical methods. Collaborating across disciplines, I contribute to projects that span from the local to the regional scale, supporting the development of improved models, targeted analyses, and actionable insights to inform the public and guide decision-making on a scientific basis.

## Professional Experience

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### Postdoc in Atmospheric Modeling

Jul. 2023 - today

AARHUS UNIVERSITY - DEPARTMENT OF ENVIRONMENTAL SCIENCE

Development of the local-scale air pollution model DALM and collaboration on a variety of projects in the areas of air pollution modeling, dynamical downscaling, forecasting, model evaluation, exposure and health impact assessments, birch pollen, and sand drift. This also includes i.a. research-based advisory activities.

### Research Assistant in Atmospheric Modeling

May 2023 - Jun. 2023

AARHUS UNIVERSITY - DEPARTMENT OF ENVIRONMENTAL SCIENCE

Involvement in projects related to air pollution and model evaluation.

### Ph.D. in Environmental Science

May 2020 - Jul. 2023

AARHUS UNIVERSITY - DEPARTMENT OF ENVIRONMENTAL SCIENCE

### Student Assistant in Atmospheric Modeling and IT support

Apr. 2019 - Apr. 2020

AARHUS UNIVERSITY - DEPARTMENT OF ENVIRONMENTAL SCIENCE

Performing data analysis of data from air pollution and climate models.

- Improvement of computational skills and experience in working in a professional team.
- Co-authoring a presentation for EMS 2019 titled *Black Carbon Radiative Forcing over the Arctic*.

### Mentor / Senior Mentor

Sep. 2014 - Apr. 2019

MENTORDANMARK

Teaching of students from the primary and secondary school in mathematics, physics, astronomy, and history.

- Ranked first of more than one thousand mentors in the company, based on e.g., mentee satisfaction.

## Education

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### Ph.D. in Environmental Science - Aarhus University

May 2020 - Jul. 2023

DEPARTMENT OF ENVIRONMENTAL SCIENCE

- **Ph.D. thesis:** *High-Resolution Modeling of Air Pollution in Denmark - With the DANish Lagrangian Model (DALM)*
- **Stay abroad:** Two month research stay at the PALM group at Leibniz University, Hannover, Germany –Spring 2022
- Collaboration within the Big Data Centre for Environment and Health (BERTHA).
- Courses completed in atmospheric modelling, micrometeorology, turbulence, GIS, and project management.
- Involvement in the editorial team of the department and the Ph.D. mentoring program.

## M.Sc. in Physics - University of Copenhagen

Sep. 2017 - Mar. 2020

NIELS BOHR INSTITUTE - GPA: 12.0

- **Master's Thesis:** *2D Cylindrical Poisson Solver for Self-gravitating Astrophysical Disks*
- **Semester Abroad:** University of Melbourne, Melbourne, Australia – *Spring 2018*
- Participation in an international conference and a summer school.
- First author of the published article *How bright was the Big Bang?* in *American Journal of Physics*.

## B.Sc. in Physics - University of Copenhagen

Sep. 2014 - Jun. 2017

NIELS BOHR INSTITUTE - GPA: 10.1

- **Bachelor's Thesis:** *Properties of Galaxies in the COSMOS and SDSS Surveys - Examining the Host Galaxies of Active Galactic Nuclei*
- **Semester Abroad:** University of Wisconsin-Madison (UW-Madison), Madison, USA – *Autumn 2016*
- Participation in an extracurricular project at the Dark Cosmology Centre (DARK) during the second and third year of my Bachelor.

## Skills

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**Languages** Danish (native language), English (full professional proficiency), German (elementary).

**Computing** R, Fortran, Python, MATLAB, C, Linux/Bash, OpenMP, L<sup>A</sup>T<sub>E</sub>X, Git, GIS, HPC, Maple, Microsoft Office.

## Participation in Research Projects

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### EXPOSIM

2026

The project aims to provide a strong evidence base to better understand the impact of environmental stressors (air pollution, noise and hazardous waste) on immune health.

### Emissionsopgørelser i høj opløsning til fremtidens behov

2026

The project aims to enhance the spatial resolution of traffic and wood stove emissions and assess the resulting effects on air pollutant concentrations through comparison with measurements. The project is funded by Forskningsreserven.

### Partikelantal og ultrafine partikler i modellerne – for sundhed og klima

2025 - 2026

This project seeks to enhance the capabilities of the DEHM, UBM, and OSPM models for improved estimation of particle number concentrations. The project is funded by Forskningsreserven.

### Dansk Naturindikator 2

2025 - 2027

This project aims to provide a standardized and reliable measure for area-based biodiversity initiatives and to develop a flexible tool that makes it easy to compare different possible scenarios for nature development. A key process in this context is the modeling of sand drift, which has been a central focus of my work.

### MARCHES (Methodologies for Assessing the Real Costs to Health of Environmental Stressors)

2025 - 2026

This project aims to advance methodological rigour and consistency in accounting for the welfare economic health costs of air pollution and drinking water nitrate, based on systematic reviews of health effects.

### CAMS2\_72

2024 - 2027

The purpose of this service is to stimulate uptake of CAMS products for stakeholders within Denmark, and to test and implement selected CAMS products for delivering high-quality and downscaled air quality information in Denmark.

### BenefitNature

2024

This project aims to establish the research base for development of an economic valuation system for air pollution (EVA-Nature) to assess socio-economic benefits from reduction of nitrogen deposition to sensitive terrestrial nature areas.

### NordSmoke

2024

This project aims to evaluate scenarios for the potential future developments in emissions from small-scale wood combustion in the Nordic countries (Denmark, Finland, Sweden and Norway) towards 2030.

### NOVANA (National Monitoring and Assessment Programme for the Aquatic and Terrestrial Environment)

2024 -

This monitoring program intends to support the overall objectives of the air quality directives.

### Partikelkortlægning for Tårnby Kommune

2023

This project aims to map the air pollution of particles in Tårnby Municipality.

### **IMTEC (Integrated analysis of Mobility for susTainable E-C Cities)**

2023 - 2026

This project aims to provide tools and case studies for optimizing multimodal traffic management, improving urban mobility, reducing traffic emissions, and finding new solutions towards greener mobility practices, climate-neutral and smart cities.

### **CAMS2\_40**

2023 -

The purpose of this service is to provide air quality forecasts and analysis on a European scale within an operational service. This also includes the maintenance of a continuous workflow of changes to the air quality models, in order to include new research developments, and to make corrections reflecting findings from verification and validation activities.

### **BERTHA COVID-19**

2023

This project aims to investigate the association between health outcomes including COVID-19 and air pollution exposure for the Danish population

### **Evaluering af skærpede miljøzoner**

2023

This project aims to assess the impact of stricter environmental zone requirements for diesel vehicles on traffic emissions and air quality for selected harmful pollutants, and to estimate the resulting health effects and associated societal costs. The project is funded by the Danish EPA (MST).

### **Odense - AirGIS**

2022

This project investigates the relation between accumulated air pollution exposure and subclinical cardiovascular disease in two cohorts of Danish 60-75 years old individuals. Air pollution exposure was estimated at both home and work addresses of the participants in order to investigate which air pollution components are associated with cardiovascular diseases.

### **EXIMIOUS (Mapping Exposure-Induced Immune Effects: Connecting the Exposome and the Immunome)**

2021

This project investigates a new way of assessing the human exposome, i.e., the exposures to environmental factors that one experiences throughout life. It is a H2020 project.

### **ASTHMA**

2021-2022

This project investigates the impact of exposure to air pollution on asthma. The overall objective of the study was to test the hypothesis that early-life exposure to ambient air pollution from multiple sources has individual and joint effects on the risk of development of asthma in children and adolescents. The project is funded the Health Effects Institute (HEI), USA.

### **HERMES (Health effects of air pollution components, noise and socioeconomic status)**

2020-2023

This project aims to investigate the associations between air pollution and risk of type 2 diabetes, myocardial infarction, and stroke. The project is funded by the Health Effects Institute (HEI), USA.

### **NordicWelfAir (Understanding the link between Air pollution and Distribution of related Health Impacts and Welfare in the Nordic countries)**

2020-2023

This project aims to improve the understanding of the relationship between air pollution concentrations, the chemical composition of the pollution, and the related health effects in the Nordic countries. The project is funded by NordForsk under the Nordic Programme on Health and Welfare.

### **NURSE**

2020

This project aims to estimate the air pollution exposure for all participants of the Danish Nurse Cohort, covering all Denmark over a time period of 30 years. The project is funded via the Challenge programme by the Novo Nordisk Foundation.

## **Peer-reviewed Publications**

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#### **Published as first author:**

- **Andersen, C.**, Ketzler, M., Hertel, O., Christensen, J.H., and Brandt, J.: "The Danish Lagrangian Model (DALM): Development of a new local-scale high-resolution air pollution model". *Environ. Model. Softw.* **176**, 106010 (2024). DOI: <https://doi.org/10.1016/j.envsoft.2024.106010>
- **Andersen, C.**, Rosenstroem, C.A., and Ruchayskiy, O.: "How bright was the Big Bang?". *Am. J. Phys.* **87**, 395 (2019). DOI: <https://doi.org/10.1119/1.5092705>

## Published as co-author:

- Poulsen, A.H., Sørensen, M., Hvidtfeldt, U.A., Christensen, J.H., Brandt, J., Frohn, L.M., Ketzel, M., **Andersen, C.**, Jensen, S.S., Münzel, T., and Raaschou-Nielsen, O.: "Concomitant exposure to air pollution, green space, and noise and risk of stroke: a cohort study from Denmark". *Lancet Reg. Health Eur.* **31**, 100655 (2023). DOI: <https://doi.org/10.1016/j.lanepe.2023.100655>
- Poulsen, A.H., Sørensen, M., Hvidtfeldt, U.A., Christensen, J.H., Brandt, J., Frohn, L.M., Ketzel, M., **Andersen, C.**, and Raaschou-Nielsen, O.: "Source-Specific Air Pollution Including Ultrafine Particles and Risk of Myocardial Infarction: A Nationwide Cohort Study from Denmark". *Environ. Health Perspect.* **131**, 5, 057010 (2023). DOI: <https://doi.org/10.1289/EHP10556>
- Sørensen, M., Poulsen, A.H., Hvidtfeldt, U.A., Christensen, J.H., Brandt, J., Frohn, L.M., Ketzel, M., **Andersen, C.**, Valencia, V.H., Lassen, C.F., and Raaschou-Nielsen, O.: "Effects of sociodemographic characteristics, comorbidity and co-exposures on the association between air pollution and type 2 diabetes: A nationwide cohort study". *Environ. Health Perspect.* **131**, 2, 027008 (2023). DOI: <https://doi.org/10.1289/EHP11347>
- Frohn, L.M., Geels, C., **Andersen, C.**, Andersson, C., Bennet, C., Christensen, J.H., Im, U., Karvosenoja, N., Kindler, P.A., Kukkonen, J., Lopez-Aparicio, S., Nielsen, O.-K., Palamarchuk, Y., Paunu, V.-V., Plejdrup, M.S., Segersson, D., Sofiev, M., and Brandt, J.: "Evaluation of multidecadal high-resolution atmospheric chemistry-transport modelling for exposure assessments in the continental Nordic countries". *Atmos. Environ.* **290**, 119334 (2022). DOI: <https://doi.org/10.1016/j.atmosenv.2022.119334>
- Ketzel, M., Frohn, L.M., Christensen, J.H., Brandt, J., Massling, A., **Andersen, C.**, Im, U., Jensen, S.S., Khan, J., Nielsen, O.-K., Plejdrup, M.S., Manders, A., Dernier van der Gon, H., Kumar, P., and Raaschou-Nielsen, O.: "Modelling ultrafine particle number concentrations at address resolution in Denmark from 1979 to 2018-Part 2: Local and street scale modelling and evaluation." *Atmos. Environ.* **264**, 118633 (2021). DOI: <https://doi.org/10.1016/j.atmosenv.2021.118633>
- Frohn, L.M., Ketzel, M., Christensen, J.H., Brandt, J., Im, U., Massling, A., **Andersen, C.**, Plejdrup, M.S., Nielsen, O.-K., Gon, H.D.V.D., Manders-Groot, A., and Raaschou-Nielsen, O.: "Modelling ultrafine particle number concentrations at address resolution in Denmark from 1979-2018-Part 1: Regional and urban scale modelling and evaluation". *Atmos. Environ.* **264**, 118631 (2021). DOI: <https://doi.org/10.1016/j.atmosenv.2021.118631>

## Scientific/Advisory Reports

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- Frohn, L.M., Geels, C., Ye, Z., **Andersen, C.**, Christensen, J.H., Massenberg, J.R., Simpson, D., Anderson, C., Bergstöm, R., Jacobsen, J.B., Laage-Thomsen, T., Magnussen, K. and Sigurdsson, B.D.: "Nitrogen deposition in the Nordic countries. Results from two research projects focused on Nordic nature and air pollution". *Nordic Working Paper, Nordic Council of Ministers*, NA2025:901, ISSN 2311-0562 (2025). DOI: <http://dx.doi.org/10.6027/NA2025-901>
- Jensen, S.S., Khan, J., Christensen, J.H., Ketzel, M., Hansen, K.M., **Andersen, C.**, Brandt, J., and Eller-mann, T.: "Prognose- og varslingssystem for luftkvalitet i Københavns Kommune". *Aarhus University, DCE – Danish Centre for Environment and Energy*, 33 pp. Scientific Report No. 636 (2024). [https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige\\_rapporter\\_600-699/SR636.pdf](https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige_rapporter_600-699/SR636.pdf)
- Lansø, A.S., Winter, M., and **Andersen, C.**: "Kortlægning af partikelforureningen i Tårnby Kommune. Delrapport 3 - Detaljeret kortlægning af luftforurening fra Københavns Lufthavn". *Aarhus University, DCE – Danish Centre for Environment and Energy*, 76 pp. Scientific Report No. 617 (2024). [https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige\\_rapporter\\_600-699/SR617.pdf](https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige_rapporter_600-699/SR617.pdf)
- Jensen, S.S., **Andersen, C.**, Ketzel, M., and Winther, M.: "Evaluering af skærpede miljøzoner for dieselpersonbiler". *Aarhus University, DCE – Danish Centre for Environment and Energy*, 80 pp. Scientific Report No. 608 (2024). [https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige\\_rapporter\\_600-699/SR608.pdf](https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige_rapporter_600-699/SR608.pdf)

## Popular Articles, Policy Briefs, etc.

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- Geels, C., Plejdrup, M.S., Nielsen, O.-K., Frohn, L.M., Ye, Z., **Andersen, C.**, Christensen, J.H., Brandt, J., Jensen, S.S., Grythe, H., Lopez-Aparicio, S., Karvosenoja, N., Paunu, V.-V., and Asker, C.: "Policy Brief: Potential for reducing the health burden of air pollution from residential wood combustion in the Nordic countries". *Nordic Council of Ministers*, 11 pp. Policy Brief (2025). DOI: <https://pub.norden.org/nord2025-017>

## Bibliometrics in Main Databases

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Metric	Scopus	Web of Science	Google Scholar
Total citations	189	182	257
H-index	6	6	6

## Teaching

### RStudio - Basic

Spring, 2025

AARHUS UNIVERSITY, AARHUS

Providing input to the course material of a short self-paced Brightspace course at Aarhus University about R and RStudio.

### R Programming Course for Data Science and Visualization

18 Mar. 2025 - 19 Mar. 2025

AARHUS UNIVERSITY, AARHUS

This internal course at the Department of Environmental Science has been developed and taught together with a colleague. 8 persons across professional levels attended.

## Continuing Education

### University Pedagogical Programme

10 Dec. 2024 - 19 Jun. 2025

AARHUS UNIVERSITY, AARHUS

### Forskningbaseret rådgivning

28 Apr. 2025 - 8 Aug. 2025

AARHUS UNIVERSITY, AARHUS

### Developmental course for research leader talents: Mission-oriented research and innovation

1 Sep. 2023 - 21 Mar. 2024

AARHUS UNIVERSITY, AARHUS

## Applications

### CAMS2\_72AU\_bis\_DK - Development of a demonstrator for the Health user communities

EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS (ECMWF) (SUCCESSFUL)

### Ultrafine particles in the atmosphere: Formation, human exposure modelling and risk of dementia in the Danish population

INDEPENDENT RESEARCH FUND DENMARK (DANMARKS FRIE FORSKNINGSFOND, DFF) (UNSUCCESSFUL)

## Presentations at Conferences and Workshops

### 4th Atmosphere User Forum - CAMS NCP

3 Dec. 2024

ONLINE

Oral presentation: *CAMS\_NCP\_DK WP8 - Development of a Demonstrator for the Health User Communities*

Andersen, C., Skjøth, C.A., and Hansen, K.M.

### 22nd International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes

10 - 13 Jun. 2024

PÄRNU, ESTONIA

Oral presentation: *High-Resolution Long-Term Air Pollution Modeling in Denmark*

Andersen, C., Ketzel, M., Hertel, O., Christensen, J.H., and Brandt, J.

### 21st International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes

27 - 30 Sep. 2022

AVEIRO, PORTUGAL

Oral presentation: *Development of a New Lagrangian Air Pollution Model for Denmark*

Andersen, C., Ketzel, M., Hertel, O., Christensen, J.H., and Brandt, J.

## 13th International Conference on Air Quality – Science and Application

27 Jun. - 1 Jul. 2022

THESSALONIKI, GREECE

Oral presentation: *New Lagrangian air pollution model for Denmark*

Andersen, C., Ketzel, M., Hertel, O., Christensen, J.H., and Brandt, J.

## Co-author on Presentations at Conferences and Workshops

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### Transport and Pollution International Conference 2025

3 - 6 Nov. 2025

PARIS, FRANCE

Oral presentation: *Impact assessment of LEZ for older diesel passenger cars in Denmark*

Jensen, S.S., Andersen, C., Ketzel, M., Winther, M., Panduro, T.E., Massenberg, J.R., Brandt, J., Geels, C., and Andersen, M.S.

### 23rd International Conference on Harmonisation within Atmospheric Dispersion

15 - 19 Sep. 2025

#### Modelling for Regulatory Purposes

HAMBURG, GERMANY

Oral presentation: *Coupling of an air pollution modelling system, with an activity-based traffic model to estimate air pollution and climate effect for the city of Copenhagen*

Ketzel, M., Berthelsen, D., Jensen, S.S., Khan, J., Geels, C., Andersen, C., Hvidberg, N.S., Sahyoun, M., Kjems, S., Christensen, J.H., and Baklanov, A.

### Trafikdage

26 - 27 Aug. 2025

AALBORG, DENMARK

Oral presentation: *Prognose- og varslingssystem for luftkvalitet i Københavns Kommune*

Jensen, S.S., Khan, J., Christensen, J.H., Ketzel, M., Hansen, K.M., Andersen, C., Brandt, J., and Ellermann, T.

### International Technical Meeting on Air Pollution Modelling and its Application

14 - 18 Oct. 2024

COPENHAGEN, DENMARK

Poster presentation: *Investigating the impacts of urban traffic emissions on air pollution in the Copenhagen metropolitan area utilizing the online integrated meteorology-chemistry modelling system Enviro-HIRLAM*

Sahyoun, M., Nuterman, R., Ketzel, M., Jensen, S.S., Khan, J., Geels, C., Andersen, C., Mahura, A., Berthelsen, D., Kjems, S., Christensen, J.H., and Baklanov, A.

### International Technical Meeting on Air Pollution Modelling and its Application

14 - 18 Oct. 2024

COPENHAGEN, DENMARK

Oral presentation: *Coupling of an activity-based traffic model with an air pollution modelling system to estimate air pollution and climate effect for the city of Copenhagen - Part of the IMTEC project*

Ketzel, M., Berthelsen, D., Jensen, S.S., Khan, J., Geels, C., Andersen, C., Hvidberg, N.S., Sahyoun, M., Kjems, S., Christensen, J.H., and Baklanov, A.

### Trafikdage

20 - 21 Jun. 2024

AALBORG, DENMARK

Oral presentation: *Evaluering af skærpede miljøzoner for dieselpersonbiler*

Jensen, S.S., Andersen, C., Ketzel, M., and Winther, M.

### 22nd International Conference on Harmonisation within Atmospheric Dispersion

10 - 13 Jun. 2024

#### Modelling for Regulatory Purposes

PÄRNU, ESTONIA

Oral presentation: *Extending the application range of the parameterised street canyon model OSPM*

Ketzel, M., Andersen, C., Khan, J., and Jensen, S.S.

### European Conference for Applied Meteorology and Climatology 2019

9 - 13 Sep. 2019

LYNGBY, DENMARK

Oral presentation: *Black Carbon Radiative Forcing over the Arctic*

Im, U., Tsigaridis, K., Andersen, C., Christensen, J.H., Hansen, K.M., Nøjgaard, J.K., Massling, A., and Skov, H.

## Travel and Research Support Grants

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<b>DENIS VIET-JACOBSENS FOND:</b> SUPPORT OF VISIT TO UNIVERSITY OF MELBOURNE	<i>Jun. 2018</i>
<b>MINDELEGAT EFTER KIRSTEN OG HANS RASMUSSEN, FALSTER:</b> SUPPORT OF VISIT TO UNIVERSITY OF MELBOURNE	<i>Apr. 2018</i>
<b>FRIMODT-HEINEKE FONDEN:</b> SUPPORT OF VISIT TO UNIVERSITY OF MELBOURNE	<i>Apr. 2018</i>
<b>DENIS VIET-JACOBSENS FOND:</b> SUPPORT OF VISIT TO UNIVERSITY OF UNIVERSITY OF MELBOURNE	<i>Jun. 2018</i>
<b>DANSK STUDIEFOND:</b> SUPPORT OF VISIT TO UNIVERSITY OF UNIVERSITY OF MELBOURNE	<i>Feb. 2018</i>
<b>DANSK TENNIS FOND:</b> SUPPORT OF VISIT TO UNIVERSITY OF UNIVERSITY OF MELBOURNE	<i>Jan. 2018</i>
<b>OTICON FONDEN:</b> SUPPORT OF VISIT TO UNIVERSITY OF UNIVERSITY OF MELBOURNE	<i>Jan. 2018</i>
<b>MARIA &amp; M.B. RICHTERS FOND:</b> SUPPORT OF VISIT TO UNIVERSITY OF UNIVERSITY OF MELBOURNE	<i>Dec. 2017</i>
<b>AUGUSTINUS FONDEN:</b> SUPPORT OF VISIT TO UNIVERSITY OF UNIVERSITY OF MELBOURNE	<i>Dec. 2017</i>
<b>KNUD HØJGAARDS FOND:</b> SUPPORT OF VISIT TO UNIVERSITY OF UNIVERSITY OF MELBOURNE	<i>Nov. 2017</i>
<b>KRISTA OG VIGGO PETERSENS FOND:</b> SUPPORT OF VISIT TO UW-MADISON	<i>Aug. 2016</i>
<b>SCANDESIGN SCHOLARSHIP:</b> SUPPORT OF VISIT TO UW-MADISON	<i>Jun. 2016</i>
<b>HENRY SHAWS LEGAT:</b> SUPPORT OF VISIT TO UW-MADISON	<i>Jun. 2016</i>
<b>RUDOLPH ALS FONDET:</b> SUPPORT OF VISIT TO UW-MADISON	<i>Apr. 2016</i>
<b>HOTELEJER ANDERS MÅNSSON OG HUSTRUS LEGAT:</b> SUPPORT OF VISIT TO UW-MADISON	<i>Mar. 2016</i>
<b>FRANTS RICHTERS FOND:</b> SUPPORT OF VISIT TO UW-MADISON	<i>Mar. 2016</i>