

THE ANGLO-DANISH SOCIETY SCHOLARSHIP REPORTS

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MRI Scanner (model), King's College London



Rønshoved Højskole, Southern Jutland



Glasgow Cathedral



Shipborne fieldwork, Indian Ocean

THE ANGLO-DANISH SOCIETY

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Dear Members

In the following pages we are presenting the scholarship reports from awardees who received their awards during the Society's 90th Anniversary year in 2014.

To celebrate this milestone we decided to offer a special Anniversary Award for outstanding research collaboration between Denmark and the UK - a decision made well before plans and preparations for the Royal Gala event were in place. The recipient of this award, Anni Djurhuus later became the natural choice to be the scholar presenting our Protector, HRH the Duchess of Gloucester, with a posy upon arrival at the Gala Dinner held at Drapers' Hall, London.



Drapers' Hall, City of London

Neither did we know at the time of selection that the talented music scholar, Emma Oemann would later offer to sing for us during the Gala evening, performing alongside former scholar Jacob Shaw, cellist and his piano accompanist.

We hope that you will enjoy reading all the scholarship reports that show the value of supporting these outstanding young academics.

Margit Staehr
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Anni Djurhuus

Anniversary Award Winner



*Anni Djurhuus, DPhil Marine Biology,
University of Oxford*

As a native of the Faroe Islands I developed an interest in the life of our seas and oceans from an early age. When I was young I realised that I wanted to become a marine microbial ecologist. The journey towards fulfilling my dreams started when I completed a BSc in biology from the University of the Faroes having also worked during study periods and in all holidays as a research assistant at the Faroe Marine Research Institute. In addition I have taken many courses on bioinformatics and statistics and completed some courses in astrobiology.

I was accepted for the DPhil programme at the University of Oxford with Prof. Alex D. Rogers who has done extensive work on seamounts and has a great background of experience with diverse organisms and habitats. During the course of my DPhil research I have been fortunate to do ship-borne fieldwork twice, once in the Indian Ocean and once in the Southern ocean. During these trips we have worked around hydrothermal vents and seamounts (sub-sea mountains). The subject of my re-

DPhil Marine Biology

search is microbial (mostly bacteria) ecology around seamounts and hydrothermal vents. We were interested in which were the major players in these respective habitats and their role in carbon sequestration and recycling.

We took measures of carbon and bacteria in the fluids above the orifice of the hydrothermal vent directly in the plume. These data showed that we could estimate that bacteria around hydrothermal vents are important in deep-sea carbon production making a significant contribution considering that it is often considered a vast oceanic desert without many life forms, highlighting the importance of fresh carbon production in the deep ocean.

From the seamount study we found more than 50.000 species of bacteria. We showed that these bacteria are important drivers of marine biomass and that the composition of individual bacteria is unique to each area we sampled. This result clearly demonstrated that microbial dispersion is more complex than previously thought and that all bacteria are not passive participants of the world's oceans.

This degree has given me a good insight into the microbial ecology field and has inspired me to continue as a postdoctoral researcher in Tampa, Florida. I have accepted a research position on a project on Marine Biodiversity Observation Networks. We will research the connectivity between different organisms to tie bacterial seasonality with animal abundance for a better understanding of the role of bacteria in marine ecosystems. This will further my career opportunities on the Faroe Islands with relevant work experience.

Morten Hansen

Many important constituents make up a degree, and funding is an important factor. Through the generous funds from the Anglo-Danish Society I have found myself able to focus on my studies. The financial relief from receiving this scholarship significantly helped me succeed in my DPhil degree.

Anni Djurhuus



*Morten Hansen, MSc Education,
University of Oxford*

Thank you very much for your economic support of my graduate studies in Comparative and International Education at the University of Oxford. The graduate experience exposed me to considerable British and U.S. education literature that I was not familiar with prior to my arrival. Furthermore, conferences at the OECD, UNESCO, and other international education organisations helped me contextualise my previous working experience from the European Commission and the Danish Ministry of Foreign Affairs.

Most importantly, the daily interaction with my fellow students from my college, the Education department, and other Oxford departments were unparalleled sources of inspiration and insight. To ensure taking full advantage of these oppor-

MSc Education

tunities and to satisfy my curiosity, I followed several extra lecture series. My favourites were held at the European Studies Centre, the Department of Geography, and the Oxford Internet Institute.

My research explores theories and methods used in academic literature analysing modern European education policy. I contributed to the literature through conceptual work on how to develop said methods and theories. Beyond the European-level interviews and policy analysis, the research drew on literature from systems science and geography, academic disciplines adjacent to comparative education.

The outcome of my research is a conceptual framework, useful when exploring and developing existing education policy analysis. The framework provides a solid foundation for further research in this area at a time when the education landscape is changing rapidly and becoming more complex. For example, if a top English university drops ten ranks in the major international university rankings, it may not be immediately clear why this happened, what the consequences will be, and how to construct a policy response. What is clear is that a significant drop in rankings will affect the university's brand value in the eyes of incoming students, research councils, and philanthropists, changing future revenue and recruitment streams.

Living and studying in Oxford, though invaluable, comes at an economic cost. Without the sizable contribution by the Anglo-Danish Society, I would not have been able to finance this graduate experience. My current work and future aspirations are natural extensions of a trajectory made

Emma Christine Jappe

possible by the Anglo-Danish Society scholarship. I truly appreciate the Society's generosity and aim at continuing this development and work for years to come.

Morten Hansen



*Emma Christine Jappe, MSc Drug Design,
University College London*

In 2015, I returned from an extremely rewarding term studying MSc Drug Design at the Wolfson Institute for Biomedical Research, University College London (UCL).

I had identified the MSc in Drug Design at UCL as a good supplement to my Danish MSc (Eng) in Advanced and Applied Chemistry at the Technical University of Denmark (DTU) and it most certainly lived up to my expectations.

Prior to my studies at UCL, the focus of my master's degree was primarily on medicinal chemistry and pharmaceutical drug development with a large emphasis on chemical synthesis and laboratory work. I wanted a course that would provide me with an insight into the same field of research but from a different angle which resulted in my choice of the Wolfson Institute of Biomedical Research. It offered modules mainly concerned with computational and struc-

MSc Drug Design

tural biology, bioinformatics and chemoinformatics all of which I found very intriguing.

During my time in London, I have had the pleasure of participating in academic extra-curricular activities of which the most memorable and rewarding was the Intel Business Challenge (Europe) in Vilnius, Lithuania, a case competition for young entrepreneurs developing innovative solutions to solve modern-day social, medical and consumer issues. I participated as part of the biotech start-up company VenomAb, whose aim it is to bring snake anti venom into the modern era of biopharmaceuticals, and we reached the finals.



The contribution from the Anglo-Danish Society was valuable as it allowed me to study at a highly prestigious university in London.

I wish to work in an international pharmaceutical company and I believe that the MSc in Drug Design at the Wolfson Institute adds a unique dimension to my degree that I would not acquire otherwise. I greatly thank the Anglo-Danish Society for the invaluable support.

Emma Christine Jappe.

Sarah Georg Jensen

PhD Psychology



*Sarah Georg Jensen, PhD Psychology,
King's College London*

The Anglo-Danish Society generously supported me with a stipend during my PhD studies at King's College London. This turned out to be a very exciting year for me, both personally and in terms of my academic career. I am very grateful to the Anglo-Danish Society for helping me pursue the experiences I have had over the last 12 months.

Shortly after receiving the news that I had been selected for the scholarship in the spring 2014 I attended a launch event of a new report by the World Health Organisation (WHO) on adolescent health, in London. A senior scientist in the Department of Maternal, Newborn, Child and Adolescent Health was very interested in my research background and we started discussing the potential for a collaboration with WHO during my PhD studies. This conversation moved forward via emails and in September 2014 I moved to Geneva for 3 months to collaborate with WHO on two projects related to my PhD research. Both projects were split between the Department of Maternal, Newborn, Child and Adolescent Health and the Department of

Mental Health. My task within the first project was to help WHO review the main mental health issues and to identify future indicators of mental health among adolescents globally. It was an interesting and relevant task in which I could use my knowledge of psychology and psychiatry along with my methodological knowledge from my research.

My other project in collaboration with WHO was writing an analytic review and statement article about interventions to support early child development in developing countries. This paper fitted very well within my own research agenda because it reviewed risk factors that affect children's early development. Whereas my other PhD work has focused on experiences of children in England, this paper focused on child development in the developing world. It was very well received within WHO and among experts and was published in a special issue of a scientific journal.

My second PhD paper was published in a high impact American paediatric journal. In this study I showed that early adversity within the first 6 years of life is a predictor of whether children develop symptoms of depression in late childhood. I also show that early adverse experiences and depressive symptoms relate to structural variation in the brain. This paper received public attention, especially in the US, because it shows that we see wide-ranging effects of stress in children's psychological wellbeing and on their brain, even in a sample of children from the normal population.

In my last PhD paper I examine how early adverse experiences and victimization during childhood relate to psychotic experiences in childhood and adolescence. I also examine how adversity, victimization and psychotic experiences relate to alterations in

Anders Kjemtrup

the connectivity between different regions of the brain using a novel neuroimaging method called Diffusion Tensor Imaging. In this study I have found that the level of stress the mother experienced during pregnancy is a strong predictor of compromised connectivity in tracts that aids communication between the two hemispheres of the brain.

After finishing my PhD I am going to take up a postdoctoral position at Harvard Medical School.

Sarah Georg Jensen



*Anders Kjemtrup, MPhil Development Studies,
University of Cambridge*

At Cambridge, my research has focused on development policies in Sub-Saharan Africa (SSA). SSA continues to be the most deprived region in the world and many of the countries are suffering from serious health crises, conflicts or dire economic conditions. I have specialised in how the extractive and agricultural sector can be used to increase economic growth and reduce hardships for African populations. I have undertaken comparative studies on how Ghana and Uganda have managed their recent oil findings, and which policies are required to ensure that the wealth flowing

MPhil Development Studies

from oil ends up benefiting national populations rather than corrupt politicians.

I have also analysed the contentious issue of Genetically Modified (GM) crops for SSA agriculture. GM crop adoption has been very slow in SSA even though the improved crops might significantly improve agricultural production and profitability. This is of major importance for poverty reduction in SSA as the majority of people are employed in the agricultural sector.

I have been fortunate to study under some of the most famous academics within my field, one of them being the world-class Korean economist Ha-Joon Chang. Being able to share ideas and thoughts with world-class faculty, while receiving ample feedback on one's work is what really develops you as an academic.

My final master thesis is written in collaboration between CBS and Cambridge, thereby upholding the values and ideas of the Anglo-Danish Society. One of my academic supervisors at Cambridge has offered to be external supervisor while I complete my second degree. I plan to write it on the impacts of multi-stakeholder initiatives in Africa. I plan to keep up my academic and extra-curricular network at Cambridge in the future.

I would like to extend my deepest gratitude to the Anglo-Danish Society for alleviating my financial concerns through their scholarship. Studying at a world-class institution such as Cambridge is attached to serious financial commitments and I would not have been able to fulfil my dream of studying here without the help of the Society. Having experienced the Cambridge lifestyle for the past year certainly has ignited my

Ruairidh Tarvet

passion for undertaking not just future research (hopefully at Cambridge through a PhD), but also to continue strengthening the ties between the UK and Denmark.

A heartfelt thank you to the Anglo-Danish Society and all its members.

Anders Kjemtrup



*Ruairidh Tarvet, PhD Linguistics,
University of Edinburgh*

The region of Southern Jutland is an area of great potential interest in the field of language and culture contact studies. Stretching from the river Eider in the south (now a part of Schleswig-Holstein, Germany) to the river Kongeå in the north (in the middle of Jutland, Denmark), the region has played host to a flurry of language contact situations. Through trade, war, politics, royal affiliation and daily life, Southern Jutland has been actively exposed to five languages and dialects which are still in use to this present day. The region has also previously seen numerous other Germanic and Slavic languages, dialects and pidgins such as Polabian and Missingsch, which although no longer being in use, still contributed to the languages and dialects of the region by means of various phenomena such as relexification, borrowing and language con-

PhD Linguistics

vergence.

The study of language contact in this region has until now been fairly limited in scope, with previous research having focussed on topics such as language interference as well as language death.

As a language is essentially a non-static and ever-changing means of communication, varying in form according to the social sphere and location of the speaker, it is virtually impossible to accurately document the speech of those in the language contact situation in a way which would be representative of every speaker in the region. In addition to this, the effects and types of language contact depend on a number of variables such as attitude towards the languages, method of language acquisition (learned or imposed contact), social prestige or dominance of (usually) one of the languages and linguistic similarity of the second language. As such my PhD project will not simply seek to undertake a 'pulse check' on language contact in Southern Jutland but will instead focus on the factors leading to language contact in the region.

The purpose of my thesis is to analyse the linguistic features of the languages and dialects of Southern Jutland and evaluate the effects of the heavy contact between High and Low German, Frisian, South Jutlandic and Standard Danish.

I have been able to present my first conference paper at the Nordic Research Network 2015 conference on my preliminary research into language contact in Southern Jutland. Although the research was still in fairly early stages, I was thrilled to have the opportunity to present my work and to an-

Emma Oemann

swer many questions on my paper by some top Scandinavian scholars.

Beginning the first year, I feel that I have hit the ground running with my PhD studies. All of this would not have been possible without the kind support of The Anglo-Danish Society. By receiving such a generous scholarship I was able to fund the first year of my course and attend the NRN conference, which has developed me as an academic. This has spurred me on to continue my research in the region and further promote public knowledge of the southern Danish border region.

Ruairidh Tarvet



*Emma Oemann, MMus Performance (Vocal)
Royal Conservatoire of Scotland*

The Anglo-Danish Society has been a big help for me in the past two years, during which I have been studying classical singing at the Royal Conservatoire of Scotland (RCS) in the Performance Masters programme. Not only has the scholarship which I was awarded been a significant financial aid, I have also received invaluable support and genuine interest in my progress from the people I have met through The Anglo-Danish Society, not to mention the opportunity to sing at the Royal banquet in Drapers' Hall for the Society's 90th

MMus Performance

Anniversary in 2014, and for these things I am very grateful.

In June 2014, I finished my Bachelor's degree in classical singing at the Academy of Music & Dramatic Arts, Southern Denmark (Syddansk Musikkonservatorium & Skuespillerskole) with a top grade, a promising soprano voice and a desire to learn even more.

Moving to Glasgow and beginning a new course at RCS primarily meant changing singing tutors, and I was privileged with the tutelage of dramatic mezzo-soprano Clare Shearer who was unlike any teacher I had ever had before. The bond between singing teacher and singer means a lot because singing opera is an emotional and personal



thing, but it is also a craft which must be learned from a teacher whom the singer trusts completely. Working with Clare Shearer twice every week, I have gone through an enormous development as a singer and as a person, and today I am no longer a light soprano but a mezzo-soprano with a completely different quality of voice than I had two years ago.

The journey from being one voice type to finding that my own true voice is entirely different has demanded much time and in-

Emma Oemann

tense, hard work. All of my time has been put into studying, practising and performing, and having a job to help with tuition fees and living expenses has not been possible.

However, the financial help from Anglo-Danish Society has made it possible for me to spend my time making professional contacts by taking more sporadic jobs like singing in the choir of Glasgow Cathedral on occasion, and this has led to some interesting experiences and performances like Haydn: The Creation, and Duruflé: Requiem.



Furthermore, Anglo-Danish Society has inspired me to take a closer look at Anglo-Danish relations, and my focus on this has led to my teaching Danish in Glasgow. Teaching Danish has been a very positive experience for me, and it has taught me a lot about my own language and about learning new languages in general.

As an opera singer, languages are important, and at the RCS I have been studying German, Italian, French, and Russian with teachers who are all native speakers and very qualified. There have also been

MMus Performance

classes in performance, auditioning, physical training (including dance), and much, much more.

Projects which I have been involved with at the RCS include a production of Mozart: Le Nozze di Figaro, various concerts as soloist and part of the ensemble RCS Voices (Mozart: Mass in C minor, Tallis: Spem in Alium, Händel: Dixit Dominus, Purcell: My Heart Is Inditing, Vaughan Williams: Serenade to Music), a recording of Brahms: Four Songs For Women's Voices (op.17), and different productions of several opera scenes, including scenes from Mozart: Die Zauberflöte, Puccini: Suor Angelica, Menotti: The Consul, Cavalli: La Calisto, and Humperdinck: Hänsel & Gretel.

Outside RCS, I have performed with the Edinburgh Opera Group in a concert production of Strauss: Die Frau ohne Schatten, and recently I was the alto soloist in an anniversary concert for The Milngavie Choir performing Vivaldi: Gloria, and Mozart: Missa Brevis in B flat.

When possible, I have kept professional contacts in Denmark and had concerts and presentations of my studies abroad, and I am a returning artist with the Hans Christian Andersen Festivals in Odense. In the summer of 2016 I have been performing with Opera Hedeland in a production of Bellini: La Sonnambula.

When I return to Glasgow in September I will keep working with Clare Shearer privately and explore the world of opera ever closer. Thank you, Anglo-Danish Society, for making this possible.

Emma Oemann

Jesper Eis Eriksen



The Ove Arup Foundation



Jesper Eis Eriksen, PhD Urban Studies, University of Cambridge, Ove Arup Foundation Scholar

A few years ago, I read some of the ground-breaking and visionary research on public space which had been published by the now-closed Commission on Architecture and the Built Environment, CABE.

I was particularly taken by the innovative approach on how to measure and describe the many values - tangible as well as intangible - that the built environment has the ability to deliver to its local community and, indeed, to a city as a whole.

Enthused by what I had read, the idea of

DPhil Urban Studies

one day doing a PhD in Urban Studies was born! And, to me, it would be dream scenario to do the PhD at a university in the UK and under the supervision of one of the scholars originally commissioned by CABE. A couple of years further on the idea for a research topic had matured, I applied to the University of Cambridge, and was fortunate to be accepted. I even managed to get as my supervisor Dr Sebastian Macmillan, one of the original contributors to the CABE research, and who is also director of the masterclass course in *Interdisciplinary Design for the Built Environment*.

For the past decade or so, a few visionary British and American scholars have looked into how to describe and 'measure' the intangible value(s) that arise within the urban spaces of the built environment. In other words, the focus here is on the architecture of the *value creations* as opposed to describing and/or measuring the value of the architecture itself. This is the outset for my research.

So to wiggle my way from formally studying and analyzing an urban space – in my case a newly designed neighbourhood park in Copenhagen – and to describing the intangible value creation of that particular design, I make use of two approaches: One is the *theory of affordances*, the other is the concept of *place capital*.

The theory of affordances was first developed in the late 1970's by psychologist J.J. Gibson. He argued that we (ie. humans) have always changed the shape and substances of our environment to better fit what it affords us. Affordances is thus the driver behind any man-made design.



Case study site: Mimers Park, Outer Nørrebro, Copenhagen

I also use this PhD project to examine the claim that a certain form of capital exists between people and places, that of *place capital*. The concept of place capital is best described as a place-and-context-specific equivalent to the other forms of capital that exist (economic, social, cultural etc.).

To some degree, the academic exploration of the concepts of *space* versus *place*, as studied by many geographers, sociologists, and environmental psychologists, is integral to the concept of place capital. So is the concept of *public space consciousness* - the degree to which a person is conscious of the public space s/he is currently inhabiting.

For my PhD thesis, I use an urban brown-field-to-greenspace project in Copenhagen as a case, a freight transfer goods yard recently recreated as a neighbourhood park. Adopting qualitative and quantitative methods and structural analysis to study which affordances the design of the park offer, whether these affordances promote other uses or behaviours than intended by

the landscape designers, and ultimately, how it all fits with the aspirations and deliverables originally set out by the City of Copenhagen (enhance integration of immigrants, reduced crime, social uplift etc.), I seek out the potential creation of place capital with this particular park.

I pose that by gaining understanding of these two concepts, affordances and place capital, it is possible to not only design better places in the city but also to better 'design' the investments needed by incorporating place capital in the processes of any urban (re-)development project.

The importance, value and usability of the research conducted by me, and by my fellow recipients before me, is something I feel resonates well with the pioneering spirit, the holistic and scientifically rigorous mindset of the late Sir Ove Arup - qualities which, to this day, are integral to the corporate culture of Arup. I was thus particularly happy to receive the Ove Arup Foundation Award and extend my utmost gratitude to the Foundation's Board of Trustees.

Jesper Eis Eriksen