

Contact information

Name and birth date	Aviaja Lyberth Hauptmann, 2 nd July 1986
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Languages	Danish, English and Greenlandic (kalaallisut)

Summary and future career perspectives

Curriculum vitae for Aviaja Lyberth Hauptmann, Ph.D., microbiologist, metagenome-bioinformatician and public debater with a passion for Greenland's microbiology and the use of it in society, business and for inspiring young people.

The below sums up to an expertise in

- leading research projects and related outreach-activities
- planning and conducting research in microbial metagenomics
- disseminating research for both the general public and a research audience
- acquiring funding for research and outreach activities
- founding of companies and networks
- navigating interests of the public sector and society of Greenland

The focus of the past three years has been on building an independent research area for myself and gaining experience with project leadership. I have been responsible for developing, acquiring funding for, managing, researching and disseminating a novel area of research in the microbiomes of traditional Inuit foods as well as leading additional projects for collaborators as well as in the public sector of Greenland. It is my ambition that I will be able to consolidate this developing area of research through an external stay at a recognized international research group, after which my long-term goal is to obtain a tenure track position in Greenland and Denmark where I can research and educate within the emerging field of traditional food microbiomes and their potential for health, economic development and culturally founded education.

Education

March 2017	Ph.D., DTU Bioinformatics, Technical University of Denmark. Focus of project: microbial ecology and genetics of cold environments of Greenland and the Arctic using a bioinformatics approach
December 2012	MSc. in general biology, University of Copenhagen, Faculty of Science
2010	BSc. in general biology, University of Copenhagen, Faculty of Science

Work Experience and Leave

Feb 2020 – June 2020	Assistant professor at University of Greenland – Ilisimatusarfik. Project leader Inaarsaavik-initiative for Ilisimatusarfik master's thesis students
Maternity leave	June 2018 – Dec 2018
May 2017 – Nov 2019	The Greenland Diet Revolution - Postdoctoral researcher and project leader at University of Greenland - Ilisimatusarfik, on microorganisms from traditional Greenlandic foods. Project manager on research project at University of Copenhagen on Inuit gut microbiota.
Feb 2017 – May 2017	Project manager at University of Greenland, Ilisimatusarfik, leading the InnoLab project on increasing innovation activities between the Greenlandic industry, scientific community and the public
Maternity leave	Apr 15 – May 16
2013-2016	Ph.D. student in microbial ecology and bioinformatics at DTU Bioinformatics, Technical University of Denmark.
2014-2015	External stay at Lawrence Berkeley National Laboratory, Berkeley, CA, and Pacific Northwest National Laboratory, Richland, Washington, USA.
2015-2016	Co-founded the first biotechnological company in Greenland, ColdZymes (www.coldzymes.dk).
2014	Founded AL Hauptmann, a company relating to participation in public debates and making presentations and writing about subjects relating to Greenland as a consequence of the blog on the Danish engineers homepage www.lng.dk/blogs/groenlandsbloggen . In 2016 six talks were given in connection to AL Hauptmann.
2010-2011	Freelance translator from Danish to English and professional speaker of Greenlandic for language software for the company EuroTalk, UK and for Greenland.com.
2009-2012	Project assistant in governmental organization concerning development of aluminum industry in Greenland, Greenland Development A/S.

List of Publications

Hauptmann, AL, Paulová, P., Hansen, LH., Sicheritz-Pontén, T., Mulvad, G., Nielsen, DS. (2020) Microbiota in foods from Inuit traditional hunting. PLoS ONE 15(1): e0227819. <https://doi.org/10.1371/journal.pone.0227819>

Hauptmann, AL, Paulová, P., Castro-Mejía, JL., Hansen, LH., Sicheritz-Pontén, T., Mulvad, G., Nielsen, DS. (2020) The Microbial composition of dried fish prepared according to Greenlandic Inuit traditions and industrial counterparts. Food Microbiology 85 (2020) 103305

Bryndís Björnsdóttir, Margrét Geirsdóttir, Elísabet Eik Guðmundsdóttir, Guðjón Þorkelsson, Rósa Jónsdóttir, Gunnar Þórðarson, René Groben, Stephen Knobloch, **Aviaja Lyberth Hauptmann**, Janus Vang, Ingunn Gunnarsdóttir, Ragnar Jóhannsson, Lisbeth Due Schönemann-Paul, Sigrún Elsa Smáradóttir (2018) Biorefining and Biotechnology Opportunities in the West Nordic Region. Matís Technical Report ISSN 1670-7192

Hauptmann, AL, Sicheritz-Pontén, T., Cameron, KA., Bælum, J., Plichta, DR., Dalgaard, M., Stibal, M (2017) Contamination of the Arctic reflected in microbial metagenomes from the Greenland ice sheet Environ. Res. Lett. 12 074019 <https://doi.org/10.1088/1748-9326/aa7445> The publication received extensive attention from international media: <https://iop.altmetric.com/details/21747112>

Hauptmann, AL, Markussen, TN., Stibal, M., Olsen, NS., Elberling, B., Bælum, J., Sicheritz-Pontén, T., and Jacobsen, CS. (2016) Upstream freshwater and terrestrial sources are differentially reflected in the bacterial community structure along a small Arctic river and its estuary. Front. Microbiol. DOI:10.3389/fmicb.2016.01474

Hauptmann, AL, Stibal, M., Bælum, J., Sicheritz-Pontén, T., Brunak, S., Bowman, JS., Hansen, LH., Jacobsen, CS., Blom, N. (2014). Bacterial diversity in snow on North Pole ice floes. Extremophiles. 2014 Nov;18(6):945-51.

Hauptmann, AL, Glaring, MA., Hallin, PF., Priemé, A., Stougaard, P. (2013) Draft Genome Sequence of the Psychrophilic and Alkaliphilic *Rhodospirillum rubrum* Strain GCM71T. Genome Announc. 2013 Dec 5;1(6).

Personal Grants and Awards

The Carlsberg Foundation international postdoc grant of 850.000 DKK for exchange at the University of California (2020)

The Jens Peder Hart Hansen award for emerging researchers in the field of circumpolar health (2018)

Outreach- and travel grants summed to a total of 283,400.00 DKK (2011-2018)

Danish government's funding for Arctic research: 1,572,944 DKK postdoctoral grant (2017-2019)

Grønlandsbankens Erhvervsfond: 200,000 DKK, research grant for postdoctoral work (2017-2019)

Oticon Foundation: 100,000 DKK, research grant for master's thesis (2011)

Academicus Arcticus, Second prize for master's thesis communication (2011)

Collaborative grants

UArctic Project Call for Networking Activities on Arctic Research and Education, 468,900.00 DKK

H2020-LC-CLA-2019-2 call application moved on to second round, submitted for deadline 4th of September 2019. I am included as a work package lead for one of seven work packages and responsible for data analysis on other work packages. PI for the whole application is Professor at Aarhus University, Christian Sonne.

Last five public media appearances

Suluk Magazine, in-flight magazine Air Greenland, August 2019

KNR, National broadcasting Greenland, radio interview, June 2019

DR P1, National Radio Denmark, science radio program, June 2019

Nunatsiaq News, newspaper article, August 2018

KNR, National broadcasting Greenland, news, March 2018

Invited Talks at Conferences

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| 2019 | Invited Panel speaker, <i>It Tastes Like Home</i> , gastro-tourism conference, Nuuk, Greenland |
| 2019 | Invited Panel speaker together with renowned fermentation expert Sandor Katz, Wales |
| 2019 | Invited Keynote at Zonta district conference, Copenhagen, Denmark, |
| 2018 | Invited Keynote speaker, 17 th International Congress on Circumpolar Health, Copenhagen, Denmark |
| 2017 | Invited speaker, Green Growth Dialogue, Tórshavn, Faroe Islands |
| 2016 | Invited Keynote speaker, Nunnamed Medical Conference, Nuuk, Greenland |
| 2016 | Invited speaker, side session on Greenlandic science, Arctic Science Summit Week, Fairbanks, USA |
| 2015 | Invited Panel speaker, Conference on Commercialization of Science, Nuuk, Greenland |

Current supervised students

Master student, Ilisimatusarfik, Vivi Vold, supervisor

Bachelor student, University of Copenhagen, Siff Sabinsky, co-supervisor

Fullbright student, Ilisimatusarfik, Augusta Finzel, supervisor

Conference-organizing

2017 Main organizer, Public Seminar on Greenland Health Research funded by the Danish Government Ministry for Education and Research

2015-2017 Co-organizer of the 7th Polar and Alpine Microbiology Conference (PAM) held in September 2017 in Nuuk, Greenland

Voluntary work

2019 - Board member PinkPolarBearFoundation by Greenland Ruby A/S.

2019 - Board member Foreningen Grønlandske Børn, union for ensuring the well-being of all Greenlandic children

2012 and 2019 Blogger at the Danish Engineers Homepage Ing.dk about Greenland's future with regards to science, industry, nature and society. The blog has led to several publications both online and in printed newspapers in Denmark, Greenland and Faroe Islands. The blog has led to several participations in conferences in Denmark and internationally as well as debates both live as well as in Danish radio and TV.

2012 Co-founded REBBLS (Rising Entrepreneurs in BioBusiness and Life Science) network for promising entrepreneurs and intrapreneurs in biotechnology and life science.

2010-2011 Mentee in Kubulus University of Copenhagen alumni association mentor program with career mentor from Novozymes. The mentor-mentee meetings were used to discuss experience within starting up a small biotech company with a perspective of starting up a biotech company in Greenland.

2006-2010 Volunteer at environmental NGO Nepenthes (today named Verdens Skove). 2008 to 2010: chairman of local board of Copenhagen department and central coordinator of new volunteers.

Further details can be found online:

Personal webpage www.agreenisland.com

Profile on University of Greenland's homepage: <https://da.uni.gl/find-personale/institut-for-sygepleje-sundhedsvidenskab/aviaja-lyberth-hauptmann.aspx>

LinkedIn profile: <https://www.linkedin.com/in/aviaja-lyberth-hauptmann-6a483926/>

Keynote about The Greenland Diet Revolution at International Congress on Circumpolar Health:
<https://video.ku.dk/secret/35282234/e97b9be7b2c6f150bc7d12cc725c7d53>

Blog at Danish Engineer's homepage: www.ing.dk/blogs/groenlandsbloggen

Greenland Diet Revolution social media: <https://www.instagram.com/agreenisland/?hl=en>

References

Gert Mulvad, MD, GP, Doctor h.c. Dronning Ingrid's Hospital and Ilisimatusarfik
gm@peqqik.gl

Dr. Mulvad is mentoring current postdoc project

Jacob Bælum, Ph.D., Chr. Hansen A/S

dkjabm@chr-hansen.com

Dr. Bælum supervised Ph.D. project at The Technical University of Denmark

Carsten Suhr Jacobsen, Professor, Aarhus University

csj@envs.au.dk

Professor Jacobsen is a previous collaborator on several projects