****CURRICULUM VITAE**

**GEIR JOHNSEN**

Date of birth: 5. December 1961.

Work: Trondhjem Biologiske Stasjon, Dept. of Biologi, NTNU, N-7491 Trondheim

Visiting address: Bynesveien. 46, N-7018 TRONDHEIM, NORWAY

Tel work/home/private:+47-9189-7027

Email: [geir.johnsen@ntnu.no](mailto:geir.johnsen@ntnu.no) Skype: geirjohns

**Biography:** Geir Johnsen is a professor in marine biology at Dept of biology Norwegian University of Technology and Science (NTNU), Prof II at University Centre on Svalbard (UNIS), and is one of the founding partners in a NTNU spin-off company Ecotone using new optical techniques for mapping and monitoring the marine environment. He has been at 1 years research stay at University of California at Santa Barbara (1992-93) and at Curtin University, Perth, Australia (2010-11). Adviser for 34 MSc and 12 PhD students graduated. Currently he advises 10 MSc and 5 PhD students, published >100 papers in international scientific journals and been a co-editor for the books "Ecosystem Barents Sea" (Tapir Academic Press) and  Phytoplankton pigments: Updates on Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge University Press, 2011).  Research areas: Marine ecology and biodiversity, bio-optics, photosynthesis, pigment chemotaxonomy, underwater robotics and sensor development for *in situ* identification, mapping and monitoring of bio-geo-chemical objects of interest in the marine environment.

**Google citations:**

<http://scholar.google.com/citations?hl=en&user=iTc0ulUAAAAJ&view_op=list_works&gmla=AJsN-F6qw9HZdDnPJINDzBmhtTxwEhSBIaYsXVBblkgrupL9LjpaK2HhnA63jpqRqgToQJdizKqwqVTO98ZBWElILMzyDu8kdyZhrWkiQDUC44D-nSoeGRTJ0gmX_D7ojNdLrw4VdPEJ>

**Current positions:**

**1.1.2004- :** **Professor in marine biology at Dept. of Biology**, Norwegian University of

Science & Technology (NTNU). (http://www.bio.ntnu.no/tbs/)

Teaching NTNU courses: BI-1002, BI-2036, BI-3060, BI-3061, BI-3080, BI-

8060).

**1.7.2002**- : **Adjunct professor** (Prof II) in marine biology (marine bio-optics) at University Studies In Svalbard (UNIS) at Department of Arctic Biology. Workfield Marine Bio-Optics. ([www.unis.no/research/](http://www.unis.no/research/)).Teaching UNIS courses: AB-202, AB-323/823, AB334/834.

2013-2023: **Affiliated scientist in CeO AMOS** (Autonomous Marine Operations and Systems) using

enabling technology for marine science applications (underwater robots and sensors). <http://www.ntnu.edu/amos/centre-for-autonomous-marine-operations-and-systems>

**Founder of Ecotone AS** (NTNU spin-off company in 2009-).

**Inventor of Underwater Hyperspectral Imager** (UHI). See patents below.

**Member of the board in Ecotone** (www.ecotone.com)

**Previous**:

**1999-2003**. Scientific advisor to SINTEF Fisheries and Aquaculture (1999-2003).

**1999-2003.** Engaged scientist and co-ordinator of the Strategic University Programme "Model based

development of advanced Marine equipment). NFR project # 128 726/420.

**2001-2004.** Norwegian Co-ordinator of SISCAL (European IT program)

**Patents:**

1. **Underwater Hyperspectral Imaging**. Frank B. Dehn. UK Patent office. Prior foreign application number 0809252.0 to Great Britain (21 May 2008), PCT/GB2009/001288 (21 May 2009) followed by national patent application in EU, USA, Canada and Australia in January 2011. Inventor Geir Johnsen. <http://www.wipo.int/pctdb/en/wo.jsp?WO=2009141622>

UHI patent granted in USA 6 Aug 2013:

<http://www.google.com/patents/US8502974>

UHI patent granted in Australia 19 March 2014:

http://www.ipaustralia.com.au/applicant/ecotone-as/patents/AU2009248487/

2. **Sun screen pigments.** Filed Jan 1. 2005. Frank B. Dehn. UK Patent office. Ref.

42.33.04565/06. Sole inventor: Geir Johnsen, Co-inventors Kristin Aamodt og Per Åge Lyså. International patent number: PCT/GB2006/000220

<http://www.lens.org/images/patent/AU/2006207330/B2/20130523/AU_2006_207330_B2.pdf>

**Ongoing projects 2016:**

2013 - Marine Night: Polar night studies in the Arctic. <http://www.mare-incognitum.no>

2013- Circa: Circadian rhythms of Arctic zooplankton from polar twilight to polar night - patterns, processes,

and ecosystem implications. <http://www.mare-incognitum.no>. Team member.

**2015-2019 Arctic ABC** (RCN # 244319, Økosystem): Arctic Ocean ecosystems - Applied technology, Biological interactions and Consequences in an era of abrupt climate change. RCN # 244319

**Applied technology module** Lead: G Johnsen (NTNU and UNIS). Recruitment: One postdoc and one tech (both at NTNU)

Main objective: Develop autonomous under-ice tethered observatories (ITO) that will provide optical and acoustic data from the Arctic Ocean drift ice ecosystem, including during the polar night. The observatories will be able to operate in ice and open water, and will have real-time satellite-communication ability.

**2016-2025 Arctic ABC-Development** (NFR infrastructure). Enabling technology module leader.

**2016-2019 ENTiCE (RCN # 255303)** ENabling Technology providing knowledge of structure, function and production in a complex Coastal Ecosystem (ENTiCE). Module leader incl post doc position in marine photosynthesis.

2017-2021 Legacy after Nansen (NFR, KD, total budget 800 mNOK): Part of workpackage RA-D leader team

**2013-2022: CeO AMOS** (http://www.ntnu.edu/amos): **Affiliated scientist in use of enabling technology for marine biological applications.**

<http://www.ntnu.edu/amos/centre-for-autonomous-marine-operations-and-systems>

2015-2018 (NFR Økosystem): **Ice-algal and under-ice phytoplankton bloom dynamics in a changing Arctic icescape -**“Boom or bust”: NTNU advisor for PhD position in ice algal primary production.

**Supervisor:**

Graduated MSc students (2002-2016): 37

Graduated PhD students: (2005-2016): 12

MSc students (2016-):

**Ingvild Andersson** (38). Biodiversity and ecophysiology of deep water soft corals at Tautra,

Stokkbergneset, Trondheimsfjord. Advisors: Geir Johnsen, Torkild Bakken (VM NTNU), Martin Ludvigsen (IMT NTNU).

**John Kjeken** (39). Bombs and corals in the deep water basin of Trondheimsfjorden. Advisors: Geir Johnsen, Terje Thorsnes (NGU), Petter Lågstad (FFI), Martin Ludvigsen (IMT NTNU).

**Kamilla Sporsheim.** (40). ROV-based survey of different habitats on seafloor. Advisors:

Geir Johnsen, with Kjell Inge Reitan (IBI) and Martin Ludvigsen (IMT).

**Marthe Sandbu.** (41). High Arctic Sea Ice Algae: Observed Vertical and Temporal Changes

in Photosynthetic Responses and community dynamics during a Winter-Summer Period. Advisors: Geir Johnsen & Philipp Assmy (NP).

**Aksel Mogstad.** (42). ROV-based Underwater Hyperspectral Imaging on Bubblegum Corals

(*Paragorgia arborea*). Advisors: Geir Johnsen with Martin Ludvigsen, Asgeir Sørensen (IMT/AMOS).

**Julie Mynors.** (43). Use of ocean colour to elucidate phytoplankton dynamics. Advisors Geir

Johnsen and Marcel Wernand (NOIZ)

**Dora Alvsvåg.** (44). Mapping of seagrass habitats in Norway with the use of an autonomous

surface vehicle (ASV) equipped with optical detectors. Advisors: Geir Johnsen with Torkild Bakken (VM), Martin Ludvigsen (IMT) and Jørgen Berge (UiTø).

PhD candidates (2016-):

**1. Inga Aamot** (MSc). "Use of underwater robotics and optical sensors to map distribution

and physiological condition in Norwegian kelp forest". Start Dec 2011. Supervisors: GJ (IBI), Asgeir Sørensen (IMT).

2. **Ingunn Nilssen** (Cand scient). Integrated Environmental Monitoring.

Supervisors: GJ (IBI), Asgeir Sørensen (IMT) , Ståle Johnsen (Statoil).

3. **Stein Melvær Nornes** (Siv ing): Use of UHI on seafloor. Funding SFF AMOS. Main supervisor Asgeir Sørensen,. Co-supervisor Geir Johnsen.

4. **Øyvind Ødegård** (Cand scient): Use of UHI in marine archaelogical applications. Funding

SFF AMOS. Main supervisor Asgeir Sørensen, co-supervisor Geir Johnsen.

5. **Hanna Kauko** (MSc): Photosynthesis in ica elgae and arctic phytoplankton. Supervisors

Philipp Assmy (Norw. Polar Inst.) and Geir Johnsen.

**Media** (selected programs with links):

17.09.2001. Norsk Antarktis Forsknings Ekspedisjon. "Fotosyntese i måneskinn" Schrødingers Katt

NRK 2 (reprise). TV.

<http://www.nrk.no/programmer/tv/schrodingers_katt/1.1850039>

25.09.08: Klimaendringer, er de menneskeskapt?: Schrødingers katt 25 september

2008. TV. <http://www1.nrk.no/nett-tv/klipp/414199>

02.10.08: På tokt i polhavet: Schrødingers katt (NRK1) 2 oktober 2008 (Arktis 2). TV.

<http://www1.nrk.no/nett-tv/klipp/419912>

<http://www1.nrk.no/nett-tv/indeks/146194>

09.10.08: Overraskende funn i Arktis (nettartikkel - Picoplankton): Schrødingers katt

NRK1 "Isbjørn" sendt 9 oktober 2008 . TV.

<http://www1.nrk.no/nett-tv/klipp/421827>

<http://www.nrk.no/programmer/tv/schrodingers_katt/1.6252692>

20.10.08: Svamper mot blodkreft: NRK Trøndelag-TV.

21.10.08: Svamper mot blodkreft: NRK Frokost TV 21 okt 2008

<http://www.nrk.no/nyheter/distrikt/nrk_trondelag/1.6272545>

23.10.08: Polhavets piraya: Schrødingers katt (NRK1) "Arktis del 4" sendt  23

oktober 2008. TV. <http://www.nrk.no/programmer/tv/schrodingers_katt/1.6277121>

25.03.10: Morgendagens overvåkere. NORUS Polar night expedition Kongsfjorden Jan 2010.

Schrødingers katt, NRK 1. <http://www1.nrk.no/nett-tv/klipp/628322>

25.03.11. “Nordmøringer I Australia” - Lars Djupegot møter Geir Johnsen i Perth. TV program i

Nordvestrevyen/TK TV: <http://www.1001recrutements.net/www-tk-nohovedside-f-18417-9167304-nordmøringer-i-australia.html>

21 Jan 2013: Prof Geir Johnsen & Jørgen Berge intervjues av NRK P2 radio Ekko and “Liv I

polarnatten” – 14 min Podcast , del 1 av 2.¨

28 Jan 2013: Johnsen, Geir; Berge, Jørgen. NRK, P2; Liv I polarnatten – 14 min Podcast , del 2 av 2.

NRK - Ekko (P2) [Radio]

24 Jan 2013: Geir Johnsen Podcast interview med Arctic Institute by Tom Fries:

[www.thearcticinstitute.org](http://www.thearcticinstitute.org)

7 mars 2013: **Johnsen, Geir & Sørensen, Asgeir Johan.** Koraller i dypet. Schrødingers Katt NRK

[TV] 2013-03-07 https://tv.nrk.no/serie/schrodingers-katt/DMPV73000813/07-03-2013

* 28.06.2013. Geir Johnsen & Torkild Bakken. “På tokt med Gunnerus”. Intervjuet av Universitetsavisa (UA): [Tor H.Monsen](mailto:) Lenke: http://www.universitetsavisa.no/forskning/article39741.ece

7 Sep 2013: Geir Johnsen. Trondheimsfjordens hemmeligheter. 60 minutters foredrag.

Kunnskapskanalen, NRK2 TV, Reprise NRK 2 (16.11.2014).

Lenke: http://tv.nrk.no/serie/kunnskapskanalen/MDFP17000313/07-09-2013

26 april 2013: Øyvind Ødegård, Geir Johnsen, Asgeir Sørensen. Denne vekker interesse hos NASA

og US Navy. (TV journalist: Martin Hammelvik, Randi Lillealterns & Kjartan Ovesen). Midtnytt NRK TV. <http://www.nrk.no/trondelag/1.11002852>

06.01.2014: Det sårbare nord og livet i polarnatten

<http://radio.nrk.no/serie/ekko-hovedsending/MDSP25000314/06-01-2014>

<https://player.fm/series/nrk-ekko-et-aktuelt-samfunnsprogram/06012014-viten-polarnatten-aristoteles>

10.02.2014: Avslører mysterier I polarnatta. Jørgen Berge, Geir Johnsen, Asgeir Sørensen.

Reportasje av Helge M. Markusson, Framssenteret.

Lenke: http://www.highnorthnews.com/avslorer-mysterier-i-polarnatta/

19.02.2014: “ROV-drift på havbunnen”. Artikkel om NTNU AUR-Lab I Gemini (av Siv I Ekra)

<http://gemini.no/2014/02/rov-drift-pa-havbunnen/>

19.02.2014: Smarte roboter tar nye bilder av havbunnen. Artikkel om NTNU AUR-Lab I Forskning.no

(Siv I. S. Ekra). Lenke: <http://forskning.no/informasjonsteknologi-marin-teknologi/2014/02/smarte-roboter-tar-nye-bilder-av-havbunnen>

26.03.2014: ”Dette kameraet kan bli det nye ekkoloddet – Ser flere farger enn det menneskelige øyet.

Geir Johnsen, Ingrid Myrnes Hansen og Christian Collin Hansen (intervju). By Ingvil Snøfugl, Teknisk Ukeblad. Link: <http://www.tu.no/industri/2014/03/26/dette-kameraet-kan-bli-det-nye-ekkoloddet>

16 Nov 2014: Geir Johnsen. Trondheimsfjordens hemmeligheter. 60 minutters foredrag.

Kunnskapskanalen, NRK2 TV, Reprise NRK 2 (16.11.2014). http://tv.nrk.no/serie/kunnskapskanalen/MDFP17000313/07-09-2013

17.12.2014: Ekko Livet i polarnatta. Jørgen Berge og Geir Johnsen.

<http://radio.nrk.no/serie/ekko-hovedsending/MDSP25025014/17-12-2014#t=1h14m19s>

02.01.2015: Koraller I Trondheimsfjorden. Terje Thorsnes, Asgeir Sørensen, Martin Ludvigsen, Geir

Johnsen intervjued in NRK (Norw Broadcast Company – Midt-Nytt, Magnar Brandseth reporter).

Link: http://tv.nrk.no/serie/distriktsnyheter-midtnytt/DKTL99010215/02-01-2015#t=4m28s

03.01.2015: [Fant koraller på 600 meters dyp – Geir Johnsen intervjuet av Fosna-Folket](http://www.fosna-folket.no/nyheter/article10507664.ece)

Link: [www.fosna-folket.no/nyheter/article10507664.ece](http://www.fosna-folket.no/nyheter/article10507664.ece)

**Polar night exhibition** (Jørgen Berge (UiTø/UNIS & Geir Johnsen (NTNU/UNIS) responsible for text and pictures:

Polar Night Exhibition:

Polarmuseet Tromsø (Jan-Oct 2015).

Smithsonian Museum, Washington (May 2015)

Anchorage Museum, Alaska (May-Oct 2015)

Svalbard Museum, Longyearbyen (Oct 2015-)

Transatlantic Week, Boston (Nov 2015)

Ottawa, Canada (2016)

NTNU, Trondheim (autumn 2016-summer 2017)

Check exhibition Flip book: <https://uit.no/polarmuseet/polarnatt>

Research project and media coverage at:

<http://www.mare-incognitum.no/>

Twitter: <https://twitter.com/MareIncog>

15 Nov 2015: Naturens verden (NRK radio P1, GJ interv): NTNU sin deltakelse I KontikII ekspedisjonen 2015/2016. Link: [NRK Radio - Naturens ve#1AA308A](https://radio.nrk.no/serie/naturens-verden#t=12m59s)

19 Nov 2015. “Havbunnen er full av gull, sølv og kobber”.

Link: [NRK TV - Schrödingers k#1AC93AA](https://tv.nrk.no/serie/schrodingers-katt#t=43s)

22 Nov 2015: Naturens verden (NRK radio P1): “Dagens art- Tareskog” (The kelp forest).

Link: [NRK Radio - Naturens ve#1AC884C](https://radio.nrk.no/serie/naturens-verden/DVNA02004015/22-11-2015#t=33m48s)

2016:

2016:

Jan-Feb 2016: Audubon Magazine - Meet the creatures of the Arctic polar night. Artikkel i Science del av Alisa Opar. [Meet the Creatures of t#1C8DDB3](https://www.audubon.org/magazine/january-february-2016/meet-creatures-arctic-polar-night)

11.01.2016: Sørensen A, Berge J, Johnsen, G. Kronikk i Aftenposten “Nye mysterier avdekkes i Polhavet” <http://www.aftenposten.no/viten/Nye-mysterier-avdekkes-i-Polhavet-8313649.html>

29.01.16: Svalbardposten, Leserbrev - Mørkets fyrster med påskrudd lys - av J Berge & G Johnsen

29.01.16: Svalbardposten - Fant dypvannsfisk på grunna - Eirik Palm Interv av J Berge, G

Johnsen & M Ludvigsen

04.02.16: Svalbardposten - Kronikk -Design for latskap av J Berge, G Johnsen, M Ludvigsen, J Cohen, M Geoffroy

11.02.16: Svalbardposten, Kronikk - Kinderegg i polarnatten av J Berge, Ø Ødegård & G Johnsen [Kronikk- - Kinderegg i #1C3A51E](http://svalbardposten.no/index.php?page=vis_nyhet&NyhetID=6870)

16.02.16: Forskning.no - Undervannsrobotene som oppfyller tre ønsker - KN Aarskog interv Ø Ødegård, J Berge & G Johnsen. [http-//forskning.no/hav#1C52E3D](http://forskning.no/havforskning-biologi-skipsfart/2016/02/undervannsrobot-som-oppfyller-tre-onsker)

22.02.16: VG - Fant yrende liv i polarnatta - TH Bondø intervjuer GJ m bilder & video på VG TV. [Fant yrende liv i polar#1C8CEDC](http://www.vg.no/nyheter/innenriks/svalbard/fant-yrende-liv-i-polarnatta/a/23621018/)

23.02.16: NRK P1 - God morgen Trøndelag. Ellen Flå interjvuer G Johnsen ca 2.5 t ut i sendingen. [NRK Radio - God morgen #1C8D41F](https://radio.nrk.no/serie/distriktsprogram-troendelag/DKTL01003716/23-02-2016)

25.02.16: Svalbardposten - Kronikk - a bitter sweet symphony av J Berge, Ø Ødegård, G Johnsen. [Kronikk- - A bitter-swe#1C8BCD2](http://svalbardposten.no/index.php?page=vis_nyhet&NyhetID=6923)

26.02.16: Science 901 - Arctic shipworm discovery alarms archaelogists - Eli Kintisch

[http-//science.sciencem#1C82734](http://science.sciencemag.org/content/351/6276/901)

28.02.16: Fiskaren – Mark spiser opp vrak på havbunnen[http-//fiskeribladetfis#1CB4F2C](http://fiskeribladetfiskaren.no/nyheter/?artikkel=45626)

29.02.16: NRK P1+ Frokostradio - "Liv i Polarnatta" GJ intervjuet av Kari Sørbø

[radio.nrk.no/.webloc](https://radio.nrk.no/serie/frokostradio/DMPS01004116/29-02-2016)

02.03.16: Smithsonian Magazine - "Termites of the Sea" - Michelle Donahue

["Termites of the Sea" F#1C8AF40](http://www.smithsonianmag.com/science-nature/termites-sea-found-munching-wood-arctic-shipwrecks-180958257/?no-ist)

01.03.16: Smithsonian Magazine - Termites of the sea - Ødegård, Berge & Johnsen - by Michelle Donahue. ["Termites of the Sea" F#1CC9A89](http://www.smithsonianmag.com/science-nature/termites-sea-found-munching-wood-arctic-shipwrecks-180958257/?no-ist)

01.03.16: Dagbladet - Skrekklarven var båtfolkets mareritt - by Torun Støbakk

[Skrekklarven var båtfol#1DBD828](http://www.dagbladet.no/2016/03/01/nyheter/innenriks/forskning/43304695/)

17.03.16: Gemini - Dark lords, werewolves and Indiana Jones in the polar night- by Nancy

Bazilchuk

18.03.16: Science -Voyage into darkness-Feaure article from Polar night cruise Jan 2016. Av Eli Kintisch. [Voyage into darkness | #1CC974D](http://science.sciencemag.org/content/351/6279/1254.full.pdf+html)

19.03.16: Science Nordic - [Dark lords, werewolves #1CCFE01](http://sciencenordic.com/dark-lords-werewolves-and-indiana-jones-polar-night)

22.03.16: The Atlantic - Floating in the Arctic Darkness - by Randall Hyman

[How Arctic Marine Anima#1CD7072](http://www.theatlantic.com/science/archive/2016/03/arctic-marine-life-polar-night/474870/)

20.05.16: Gemini - Bomber og buss på havbunnen - by Nancy Vazilchuk & Stein Roar Leite

[Bomber og buss på havbu#1E01195](http://gemini.no/2016/05/bomber-og-en-buss-pa-havbunnen/)

26.05.16: Adresseavisen - Fant buss på 600 m dybde - av Espen Bjørgan

[Fant buss på 600 meters#1E514F1](http://www.adressa.no/nyheter/trondheim/2016/05/26/Fant-buss-p%C3%A5-600-meters-dybde-12793548.ece)

26.05.16: NRK Viten - Gammel buss ble korallrev - by Frida Krüger

[Gammel buss ble korallr#1E376AD](http://www.nrk.no/viten/gammel-buss-ble-korallrev-1.12963965)

28.05.16: Danmarks Radio (DR) Vitenskab-Bomber fra 2 verdenskrig danner koralrev på 600 m dybde - Hanne Kokkegård. [Bomber fra 2. verdenskr#1E45D68](http://www.dr.dk/nyheder/viden/miljoe/bomber-fra-2-verdenskrig-danner-koralrev-paa-600-meters-dybde)

31.05.16: Adresseavisen - Det ligger flere busser der - Frank Lervik

[- Det ligger flere buss#1E7B625](http://www.adressa.no/nyheter/sortrondelag/2016/05/31/Det-ligger-flere-busser-der-12810375.ece)

01.06.16: Universitetet i Tromsø - 1 juni 2016 - Et stort løft for arktisk forskning (NTNU & UiT) – Karine Aarskog. [Et stort løft for arkti#1E6709B](https://uit.no/nyheter/artikkel?p_document_id=470651&p_dim=88205)

17.06.16: Svalbardposten - Yrende liv i Isfjorden - Geir Johnsen

18.06.16: Gemini-norsk utg - Mørkets fyrster…. [Mørkets fyrster, varulv#1F7694E](http://gemini.no/2016/08/morkets-fyrster-varulver-og-indiana-jones/)

25.08.16: Teknisk ukeblad - 25 aug 2016 UHI intervju Ivar Erdal (Ecotone) & Geir Johnsen

(gründer NTNU/Ecotone ) by Tormod Haugstad

02.09.16: Svalbardposten - En reise mot Ultima Thule - Berge, Falk Petersen, Renaud, Daase,

Geofroy, Johnsen. [En reise mot Ultima Thu#1F9EED8](http://svalbardposten.no/leserinnlegg/en-reise-mot-ultima-thule/19.7524)

2016: NTNU AUR-Lab og CeO AMOS med på Kontiki II ekspedisjon 2015-16.

[Slik skal Kon-Tiki 2 ut#1CC988D](http://forskning.no/havforskning-samfunnsgeografi/2015/10/kon-tiki2-i-heyerdals-kjolvann), [Kon-Tiki 2 udfordrer Th#1CC98B3](http://videnskab.dk/teknologi/kon-tiki-2-udfordrer-thor-heyerdahls-teorier)

**Pictures from Polar Night story with text in following media in 2016:**

Science (2, 2016), National Geographic NL (1, 2015), Audubon Magazine (1, 2016), Gemini, Bates Magazine, BBC Science News (2409-2015), Phys.org (1 2016), Svalbardposten, Polar lab Anchorage, Anchorage Museum, Forskning.no, Center for higher education (SiU), The Atlantic, Hakai Magazine, Fullbright.org & University of Delaware.