

CURRICULUM VITAE

Contact

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Academic education

Education	Institute	Period
➤ Senior Research Associate	➤ University of Bristol	➤ 2018 – pres.
➤ Lecturer	➤ University of Bristol	➤ 2017 - 2018
➤ Senior Research Associate	➤ University of Bristol	➤ 2016 - 2017
➤ Research Associate	➤ University of Bristol	➤ 2015 - 2016
➤ Researcher	➤ Åbo Akademi Uni.	➤ 2014 - 2015
➤ PhD	➤ Åbo Akademi Uni.	➤ 2009 - 2014
➤ Break (Maternity Leave)	➤ Åbo Akademi Uni.	➤ 2010 - 2011
➤ BSci, MSci	➤ Univ. of Gothenburgh	➤ 2004 - 2009

List of Publications

- **Kjernsmo, K.**, Lim AM, Middleton R, Hall JR, Costello L, Whitney HM., Scott-Samuel NE and Cuthill IC. Beetle iridescence induces an aversive response in naïve avian predators. *In review*.
- Costello, L.M., Scott-Samuel, N.E., **Kjernsmo, K.** & Cuthill, I.C. 2020. False holes as camouflage. *Proc. R. Soc. B.* **287**, 20200126.
- **Kjernsmo, K.**, Whitney, H.M., Scott-Samuel, N.E., Hall, J.R., Knowles, H., Talas, L. & Cuthill, I.C. 2020. Iridescence as camouflage. *Current Biology* **30**, 551-555.
- Talas, L., Fennell, J. G., **Kjernsmo, K.**, Cuthill, I. C., Scott-Samuel, N. E., Baddeley, R. J. 2020. CamoGAN: Evolving optimum camouflage with Generative Adversarial Networks. *Methods in Ecology and Evolution.* **11**, 240-247.
- **Kjernsmo, K.**, Grönholm, M. & Merilaita, S. 2019. Size and contrast increase the divertive effect of eyespots. *Behav. Ecol.* **30**, 159–165.
- **Kjernsmo, K.**, Hall, J, Doyle, C, Khuzayim, N, Cuthill, I, Scott-Samuel, N & Whitney, H, 2018. Iridescence impairs object recognition in bumblebees. *Scientific Reports*, **8**, 8095.
- **Kjernsmo, K.** 2017. Eyespots. in: Todd K Shackelford, Viviana A Weekes-Shackelford (eds) *Encyclopedia of Evolutionary Psychological Science*. Springer, Cham.
- **Kjernsmo, K.** 2017. Butterfly Mimicry. in: Todd K Shackelford, Viviana A Weekes-Shackelford (eds) *Encyclopedia of Evolutionary Psychological Science*. Springer, Cham.
- **Kjernsmo, K.** & Merilaita, S. 2017. Resemblance to the enemy's eyes underlies the intimidating effect of eyespots. *Am Nat* **190**: 594-600.

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- **Kjernsmo, K.** & Merilaita, S. Kuinka viilata vihollista linssiin: silmälaikut suojana saalistajilta (Swedish translation: Hur man förvirrar sin fiende: ögonfläckar som skydd mot rovdjur). *Luonnon Tutkija* (invited article).
- **Kjernsmo, K.** Grönholm, M. & Merilaita, S. 2016. Adaptive constellations of anti-predator marks: eyespots, eye stripes and diversion of attacks. *Animal Behaviour* **111**: 189-195, doi: 10.1016/j.anbehav.2015.10.028
- **Kjernsmo, K.** 2014. Anti-predator adaptations in aquatic environments. Ph.D. Thesis. Åbo Akademi University Press: Finland.
- **Kjernsmo, K.** & Merilaita, S. 2013. Eyespots divert attacks by fish. *Proceedings of the Royal Society B*, **280**: 20131458, <http://dx.doi.org/10.1098/rspb.2013.1458>
- **Kjernsmo, K.** & Merilaita, S. 2012. Background choice as an anti-predator strategy: the roles of background matching and visual complexity in the habitat choice of the least killifish. *Proceedings of the Royal Society B*, **279**. 4192-4198, doi:10.1098/rspb.2012.1547

Scientific work mentioned in the media

- **Science** (<https://www.sciencemag.org/news/2020/01/shiny-beetle-case-surprising-form-camouflage>)
- **Science** (<http://science.sciencemag.org/content/357/6353/769.1>)
- **Science** (<http://news.sciencemag.org/2013/07/scienceshot-how-confuse-predatory-fish>)
- **BBC** (<http://www.bbc.com/earth/story/20141112-six-ways-animals-use-fake-eyes>)
- **The Scientific American** (<https://www.scientificamerican.com/podcast/episode/iridescence-could-help-critters-hide-in-plain-sight/>)
- **The Economist** (<https://www.economist.com/science-and-technology/2020/01/23/bright-iridescent-beetles-are-surprisingly-well-camouflaged>)
- **Forbes** (<https://www.forbes.com/sites/fionamcmillan/2018/05/28/a-brilliant-disguise-confused-bees-reveal-how-iridescence-may-actually-be-camouflage/#6fadf86f3a3e>)
- **Phys.org** (three times: <https://phys.org/news/2017-09-false-eyespot-intimidate-predators.html>, <https://phys.org/news/2018-05-bumblebees-iridescent.html>, <https://phys.org/news/2020-01-jewel-beetles-plain-sight.html>)

...and many more

Refereeing

- **American Naturalist**
- **Animal Behaviour**
- **Behavioral Ecology**
- **Behavioral Ecology and Sociobiology**
- **Biology Letters**
- **Biological Journal of the Linnean Society**
- **Ecology and Evolution**
- **Evolutionary Ecology**
- **Journal of Avian Biology**
- **Journal of Animal Ecology**

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- **Oecologia**
- **Proceedings of the Royal Society B**
- **Perception**
- **Trends in Ecology and Evolution**

Presentations at scientific meetings and conferences

Invited talks/Keynotes

- Keynote speaker at the **Royal Entomological Society PG Forum**, Bristol, UK, 21st-22nd February 2020.
- Invited speaker at the **Centre for Behaviour and Evolution Seminar**, University of Newcastle, UK, 13th November 2018.
- Keynote speaker at the **Fish Behaviour** conference, University of Gothenburg, Sweden, 23rd-27th October 2017.
- Keynote speaker at the **Central Association of Beekeepers Autumn Conference**, Kenilworth, UK, 18th-20th of November 2016.
- Invited talk presented at **Bristol Vision Institute**, Bristol, UK, 20th May 2016.
- Invited Award talk presented at **OIKOS Finland meeting for Ecologists and Evolutionary Biologists**, Joensuu, Finland 10th February 2015.

Talks

- Talk presented at the **BVI Vision Researchers Colloquium**, online, 2nd July 2020.
- Talk presented at the **Varying Light Symposium**, Bristol, UK, May 2019.
- Talk presented at the **Anti-predator coloration symposium**, Falmouth, UK, 4-5th July 2019.
- Talk presented at **ESEB**, European Society for Evolutionary Biology, Turku, Finland, 19-24th August 2019.
- Talk presented at the **BVI Young Vision Researchers' Colloquium**, Bristol, UK 3rd July 2018.
- Talk presented at **CamoCon**, Bristol, UK, 12th April 2018.
- Talk presented at the **International Behaviour conference**, Estoril, Portugal, 30th July – 4th August 2017.
- Talk presented at the **Anti-predator coloration symposium**, Falmouth, UK, 4-5th August 2016.
- Talk presented at the **BVI Young Vision Researchers' Colloquium**, Cardiff, UK 23rd June 2016.
- **PhD Viva**, presented at Åbo Akademi, Finland, 11th April 2014.
- Talk presented at the 20th **Bloodbath** departmental seminar of the Dept. of Zoology at Stockholm University, Sweden, 13th-15th November 2013.
- Talk presented at the **ISBE**, 14th International Behavioural Ecology Congress, Lund, Sweden, 12-18th August 2012.
- Talk presented at the 18th **Bloodbath** departmental seminar of the Dept. of Zoology at Stockholm University, Sweden, 16th-18th November 2011.
- Talk presented at **BIOINT** annual meeting, Konnevesi, Finland, November 2011.
- Talk presented at the **Coevolution Symposium**, Jyväskylä, Finland, October 2011.
- Talk presented at **SEBDEM** Symposium in Ecology, Biological Diversity, Genetics, Environmental and Marine Biology, Turku, Finland, April 2011.

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- Talk presented at the **ASAB winter meeting**, London, UK, 1st-4th December 2010.
- Talk and poster presented at the **ISBE**, 13th International Behavioural Ecology Congress, Perth, Australia: 26th Sept - 1st Oct. 2010.
- Talk presented at the 16th **Bloodbath** departmental seminar of the Dept. of Zoology at Stockholm University, Sweden, 11th - 13th November 2009.
- Talk presented at the **SEBDEM** conference in Turku, Finland, 18th - 19th March 2009.

Posters

- Lim, A., **Kjernsmo, K.**, Cuthill, I.C.C., Scott-Samuel, N-E., & Whitney, H. M. 2018: Poster presented at BVI Young Vision Researchers' Colloquium, Bristol, UK.
- **Kjernsmo, K.** et al. 2018: Poster presented at CamoCon, Bristol, UK.
- **Kjernsmo, K.** Grönholm, M. & Merilaita, S. 2015: Poster presented at CamoCon, Liverpool, UK
- **Kjernsmo, K.** & Merilaita, S. 2010: Poster presented at the 13th International Behavioural Ecology Conference (ISBE), Perth, Australia.
- **Kjernsmo, K.**, Adriaenssens, B. & Johnsson, J. I. 2008: Poster presented at the Third European conference of Poeciliid Biologist, Chioggia, Italy.

Science outreach activities

- Speaker at **Futures: European Researchers' Night**, Bristol, 28th September, 2019.
- Speaker at the **SoapBox Science** event in Bristol, UK, 13th June 2019.
- Invited talk during **Science week** at the Orchard School, Bristol, UK, March 2017.
- Invited talk during **Science week** at Filton Avenue Primary School, Bristol, UK, March 2017.
- Invited talk during **Science week** at Filton Avenue Primary School, Bristol, UK, March 2016.
- Invited talk, **Career Day**, Stjerneskolan, Torsby, Sweden, March 2012.

Post graduate courses

- **Research supervision** organised by University of Bristol, February 2016.
- **Licentiate exam in Biology** organised by Åbo Akademi Univ. 2013.
- **Scientific writing** organised by BIOINT graduate school, University of Jyväskylä, November 2012.
- **Behavioural an Evolutionary Ecology Journal Club** organised by Åbo Akademi Univ. 2012.
- **Fish behaviour**, organised by the Department of Zoology, University of Gothenburg, 1-26 March 2010.
- **Laboratory Animal Science with emphasis on fish (theoretical and practical parts)** organised by the Department of Zoology, University of Stockholm, and by the Veterinary Resources, Karolinska Institutet, spring 2009.
- **Introduction to R in Biostatistics'**, organised by the Department of Zoology, University of Gothenburg, Feb-March 2009.
- **Statistics for Biologists** organised by the Department of Zoology, University of Gothenburg, 2009.

Teaching experience

Symposia/Workshops/Seminars organised

- Workshops in Ecology and Behaviour (“WEB”) seminar series (lead organiser), University of Bristol, UK, (2017-present).
- Workshop organised at the Anti-predator coloration symposium, University of Exeter, Falmouth, UK, (August, 2016).

Courses

- Lead and invited lecturer: Bioimaging the hidden world of pollination, University of Bristol (June 2017 and 2018).
- Invited lecturer: Y3 Psychology – How camouflage works, University of Bristol (January 2017 & 2018).
- Invited lecturer: Green Planet, University of Bristol (March 2017).
- Invited lecturer: Behavioural and Evolutionary Ecology, Åbo Akademi University (January-March 2013).
- Invited lecturer: Biology B, Åbo Akademi University (October, 2013).
- Invited lecturer: Biology B, Åbo Akademi University (October, 2012).
- Lecturer: Behavioural Ecology of Protective Colouration (222045.0), Åbo Akademi University (2012).
- Invited lecturer: Biology B, Åbo Akademi University (October, 2011).
- Invited lecturer: Ecological analysis, Åbo Akademi University (April, 2011).

MSc and BSc theses supervised

- Anna Lim (MRes, University of Bristol)
- Conal Judd-English (MSci, University of Bristol)
- Olivia Emsley (BSci, University of Bristol)
- Thomas Ma (BSci, University of Bristol)
- Freya Savage (BSci, University of Bristol)
- Bethan Fraser (BSci, University of Bristol)
- Jack Daniels (BSci, University of Bristol)
- Eliane Belben (BSci, University of Bristol)
- Rollo Wood (BSci, University of Bristol)
- Alastair Robertson (BSci, University of Bristol)
- Rachel Baxter (Bsci, University of Bristol)
- Sophie Groenhof (BSci, University of Bristol)
- Isobel Chandler (BSci, University of Bristol)
- Annie Forster (BSci, University of Bristol)
- Joacim Näslund (MSci, University of Gothenburg)
- Annika Wiksten (MSci, Åbo Akademi University)
- Cecilia Wikström (MSci, Åbo Akademi University)
- Miranda Grönholm (MSci, Åbo Akademi University)

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- Patrik Korn (BSci, Åbo Akademi University)
- Anna Bäckström (MSci, Åbo Akademi University)
- Alexander Falkenstam (MSci, Stockholm Univ. + Åbo Akademi University)
- Mira Grönblom (MSci, Åbo Akademi University)
- Johannes Björn (MSci, University of Gothenburg)
- Jutta Vuolamo (MSci, Åbo Akademi University)

Grants, Scholarships and Awards

Awards

- Nominated for Bristol Teaching Awards (2018).
- OIKOS Finland prize for the best PhD thesis in Ecology and Evolutionary Biology 2014 (Awarded in Joensuu, Finland 10.2.2015, 500€).

Grants

- BBSRC (rated 3/4 'Exceptional', declined)
- BCAI grant (£18224)
- Åbo Akademi Research Grant (4200€)
- Gösta Branders' forskningsfond Grant (207€)
- Stiftelsens för Åbo Akademis Forskningsinstitut Grant (2500€)
- Stiftelsens för Åbo Akademis Forskningsinstitut Travel Grant (376€)
- Stiftelsens för Åbo Akademis Forskningsinstitut Travel Grant (1604 SEK)

Professional roles

- 2012-2015: Board member, The Equality Committee at Åbo Akademi Univ. (Turku, Finland).
- 2012-2013: Secretary, Research Union of Åbo Akademi Univ. (Forskarföreningen vid Åbo Akademi, FfÅA, Turku, Finland).
- 2013-2015: Vice Chairman, Research Union of Åbo Akademi Univ. (Forskarföreningen vid Åbo Akademi, FfÅA, Turku, Finland).

References

- Dr. Heather Whitney, University of Bristol (heather.whitney@bristol.ac.uk) (PI of the 'Deceptive Iridescence' project).
- Prof. Innes Cuthill, University of Bristol (i.cuthill@bristol.ac.uk) (External examiner during my PhD Viva, and PI of our current research project).
- Dr. Sami Merilaita, Åbo Akademi University (sami.merilaita@abo.fi) (PhD thesis supervisor).
- Prof. Kai Lindström, Åbo Akademi University (kai.lindstrom@abo.fi) (PhD thesis examiner (custos)).