

Curriculum Vitae

PART 1

1a. Personal details				
Full name	<i>Title</i>	First name	<i>Second name(s)</i>	<i>Family name</i>
	Prof	Lloyd	Spencer	Davis
Present position		Stuart Professor of Science Communication		
Organisation/Employer		University of Otago		
Contact Address		Centre for Science Communication, University of Otago		
		P.O. Box 56		
		Dunedin	Post code	9054
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Personal website (if applicable)	http://www.lloydspencerdavis.com https://www.otago.ac.nz/science-communication/staff/spencerdavis/index.html			

1b. Academic qualifications

1982	Ph.D.	Zoology	University of Alberta, Canada
1981	M.Sc.	Zoology	University of Canterbury, NZ
1977	B.Sc.(Hons) 1st Class	Zoology	Victoria University of Wellington, NZ
1976	B.Sc.	Zoology	Victoria University of Wellington, NZ

1c. Professional positions held

2007–present, Stuart Professor of Science Communication, Centre for Science Communication, University of Otago
 2002–2007, Associate Professor, Department of Zoology, University of Otago
 1990–2002, Senior Lecturer, Department of Zoology, University of Otago
 1985–1990, Lecturer, Department of Zoology, University of Otago
 1983–1985, Scientist, Ecology Division, DSIR

1d. Present research/professional speciality

A behavioural ecologist by background, I am specialized in communicating science to the public through writing and documentary filmmaking. I am regarded as an international expert and leader with respect to research on penguins. However, most of my research for the past 13 years has focussed on ways to communicate science more effectively. This has included advocating for the use of design in science communication, developing a framework for science communication and studying how best to conduct science outreach.

Recent and ongoing research projects include:

- A MBIE Unlocking Curious Minds Project: Creating Stories about our National Parks
- A University of Otago study into the communication of science in American, Chinese, and New Zealand National Parks.
- An Australian Learning and Teaching Council funded project on developing protocols for teaching "attributes" related to science communication.
- A study to compare the way climate change is reported in the broadcast news media in New Zealand and Spain.
- An EU commissioned study involving researchers from Spain, Portugal, USA and New Zealand on what makes for effective communication of science in online videos.

1e. Total years research experience

42 years

1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

2018, Special Jury Award, Kuala Lumpur Eco Film Festival for *The Guardian of Kinabalu*
 2016-2020, Elected Vice-President of the international PCST (Public Communication of Science and Technology) Network
 2014, New Zealand Business Events Award, Tourism New Zealand
 2014-2020, Elected to the Scientific Committee for PCST
 2014, Member, Editorial Board of Journal of Science Communication
 2013, Ronald B. Tobias Award for Achievement in Science and Natural History Filmmaking Education, Montana State University, USA
 2013, Transantarctic Association Award
 2009, Apple Distinguished Educator (ADE) Award
 2009, Claude McCarthy Award
 2008, Runner's Up Award, New Zealand Travel Book of the Year
 2006, Transantarctic Association Award
 2005-2013, Chair for the WildSouth International Film Festival
 2005-2020, Trust Board Member, Festival of Colour, Wanaka
 2004, Copyright Licensing Limited Writer's Award
 2002-2010, Elected member of the International Ornithological Committee
 2002, NZ Children's Book of the Year, NZ Post Children's Book Awards
 2002, Winner, Non-fiction category, NZ Post Children's Book Award
 2002, List of Notable Books, Non-Fiction category. Children's Literature Foundation of New Zealand
 2001-2010, Board Member, Otago Museum Trust Board
 2000, Transantarctic Association Award
 2000-, Board Member, Editorial Board of Marine Ornithology
 1999, Special Prize of the Jury, 1st International Science Film Festival, Budapest
 1997, FRST Merit Award for Excellence in Scientific Communication
 1996, The ABU Prize, Asia-Pacific Broadcasting Union, Hong Kong
 1996, Merit Award for Scientific Content, 19th International Wildlife Film Festival, Missoula, USA,
 1996, Prix Special du Jury, Festival de l'Oiseau, Abbeville, France
 1996, Fulbright Award
 1994, PEN Best First Book Award for Non-fiction
 1993, Scientist-in-Residence Award, Bamfield Marine Station, Canada
 1991, British Council Higher Education Links Scheme Award
 1991, Royal Society of New Zealand Prince and Princess of Wales Science Award
 1991, Anzac Fellowship
 1990, Transantarctic Association Award
 1990-2010, New Zealand Representative, international Bird Biology Subcommittee (BBS) of the Scientific Committee on Antarctic Research (SCAR)
 1990, Ecologist to the Scientific Review Panel for Bovine Tuberculosis
 1989-1990, Board Member, Editorial Board of the New Zealand Journal of Zoology
 1987-1993, New Zealand Representative, International Ethological Council
 1987, Member, Scientific Programme Committee for the 20th International Ornithological Congress

1g. Total number of peer reviewed publications and patents	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	115	33	5	

PART 2

2a. Research publications and dissemination

Selected Peer-reviewed Journal Articles

- Finkler, W. & **Davis, L.S.** (in press). Filmmaking, Affective Communication and the Construction of Tourism Imaginaries: Putting the Wow into Sustainable Whale Watching. *Tourism, Culture and Communication*.
- Finkler, W., Medvecky, F. & **Davis, L.S.** (2021). Environmental Immersion and Mobile Filmmaking for Science Education: a New Zealand Pilot Study (IJESE-07448-2020). *Interdisciplinary Journal of Environmental and Science Education*.
- Zhu, L., **Davis, L.S.** & Carr, A. (2021). A picture is not always worth a thousand words: The visual quality of photographs affects the effectiveness of interpretive signage for science communication. *Public Understanding of Science*, 30(3): 258-273
- Davis, L.S.**, León, B., Bourk, M & Finkler, W. (2020). Transformation of the Media Landscape: Infotainment versus Expository Narrations for Communicating Science in Online Videos. *Public Understanding of Science*, 29(7): 688-701
- Martin K.M., **Davis L.S.** and Sandretto S. (2019) Students as Storytellers: Mobile-Filmmaking to Improve Student Engagement in School Science. *Journal of Science Communication*.
- Massaro M., Davidson R.S., Freire R. and **Davis L.S.** (2019) Revisiting the influence of aggressive interactions on the survival of the first-laid egg in crested penguins (genus *Eudyptes*). *Journal of Avian Biology*
- Davis L.S.**, Fähnrich B., Nepote A.C., Riedlinger M. and Trench B. (2018) Environmental Communication and Science Communication—Conversations, Connections and Collaborations *Environmental Communication* 12(4) 431-437.
- Patman R. and **Davis L.S.** (2017) Science Diplomacy in the Indo-Pacific Region: A Mixed Experience. *Politics and Policy* <https://doi.org/10.1111/polp.12228>
- Ramírez F., Afrán I., **Davis L.S.** and Chiaradia A. (2017) Climate impacts on global hot spots of marine biodiversity. *Science Advances* 3 (2): 1-7.
- Bourk M., Rock J. and **Davis L.S.** (2017) Mediating the Science: symbolic and structural influences on communicating climate change through New Zealand's television news. *Environmental Communication*: 11(6): 821-839.
- Rodríguez Estrada, F.C. and **Davis, L.S.** (2015) Improving Visual Communication of Science Through the Incorporation of Graphic Design Theories and Practices Into Science Communication. *Science Communication* 37:140-148.
- Szymanski E.A. and **Davis L.S.** (2015) Wine science in the Wild West: information-seeking behaviors and attitudes among Washington state winemakers and growers. *Journal of Wine Research* 26 (4): 270-286
- Trathan P.N., García-Borboroglu P., Boersma D., Bost C-A, Crawford R.J.M, Crossin G.T., Cuthbert R.J., Dann P., **Davis L.S.**, De la Puente S., Ellenberg U., Lynch H.J., Mattern T., Pütz K., Seddon P.J., Trivelpiece W., & Wienecke, B. (2015) Pollution, habitat loss, fishing, and climate change as critical threats to penguins. *Conservation Biology* 29: 3-41.
- Augé, A.A., Chilvers, B.L., Moore, A.B. and **Davis, L.S.** (2014), Importance of studying foraging site fidelity for spatial conservation measures in a mobile predator. *Animal Conservation* 17(1): 61-71.
- Sides A., **Davis L.** and Rock J. (2014) Our view of islands: Joining the values of science and society. *Ecological Management & Restoration* 15 (2): 123-127.
- Mattern T., Ellenberg U., Houston D.M., Lamare M., **Davis L.S.**, van Heezik Y. and Seddon P.J. (2013) Straight Line Foraging in Yellow-Eyed Penguins: New Insights into Cascading Fisheries Effects and Orientation Capabilities of Marine Predators. *PLOS One* 8 (12) 1-11.
- Davis L.S.** (2010) Science Communication: a "Down Under" Perspective. *Japanese Journal*

of Science Communication, 7: 65-71.

Rifkin, W., Longnecker, N., Leach, J., **Davis, L.S.**, & Orthia, L. (2010). Students publishing in new media: Eight hypotheses: A house of cards? *International Journal of Innovation in Science and Mathematics Education*, 18(1), 43-54.

Mulder, H. A. J., Longnecker, N., & **Davis, L. S.** (2008). The state of science communication programs at universities around the world. *Science Communication*, 30(2), 277-287.

Davis, L. S. (2007). Popularizing Antarctic science: Impact factors and penguins. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 17(Suppl. 1), S148-S164

Selected Peer Reviewed Books, Book Chapters, and Edited Books

Davis L.S. (2019) *A Polar Affair: Antarctica's forgotten hero and the secret love lives of penguins*. Pegasus Books, NY, 358pp.

Davis L.S. and León B. (2018) New and Old Narratives: changing narratives of science documentary in the digital environment. In, *Communicating Science and Technology through Online Video: researching a new media phenomenon* (eds. León B. and Bourk M.). Routledge, New York pp 55-63.

Bourk M., León B. and **Davis L.S.** (2018) Entertainment in Science: useful in small doses. In, *Communicating Science and Technology through Online Video: researching a new media phenomenon* (eds. León B. and Bourk M.). Routledge, New York pp 90-106.

Davis L.S. (2018) La Representación de los Pingüinos en el Cine: realidad frente a conceptos erróneos (The Representation of Penguins on Screen: reality versus misconception). In, *La Comunicación Audiovisual de la Ciencia* (eds. Francés M., Orozco Gómez G. and León B.). Editorial Síntesis, Madrid pp 49-59.

Patman R.G. and **Davis L.S.** (2016) The Emergence of Science Diplomacy. In, *The Social Ecology of the Anthropocene: Continuity and Change in Global Environmental Politics* (ed. Mathews, R.). World Scientific, Singapore pp 81-98.

Davis, L.S. and Patman, R.G. (eds.) (2015) *Science Diplomacy; new day or false dawn?* World Scientific Publishing, Singapore.

Davis L.S. and Patman R.G. (2015) New Day or False Dawn?. In, *Science Diplomacy; new day or false dawn?* (eds. Davis L.S. and Patman R.G.), World Scientific Publishing, Singapore, pp 261-275.

Davis, L.S. (2014) Outreach activities by Universities as a channel for Science Communication. In, *Communicating Science to the Public* (ed. Subramanian, R.) Springer, Netherlands.

Davis L.S. (2013) Erect-Crested Penguin. In, *Penguins: Natural History and Conservation* (eds Boersma, PD and Borboroglu, P.G) University of Washington Press, Seattle.

Davis L.S. (2010). Darwin's voyage on the Beagle. In D. Galloway & J. Timmins (Eds.), *Aspects of Darwin: A New Zealand celebration* (pp. 36-44). Dunedin, New Zealand: Friends of the Knox College Library, Hewitson Library, Knox College.

Selected Refereed Conference Proceedings

Bourk, M., Rock, J. and **Davis, L.S.** (2014) Mediating the Science: symbolic and structural influences on communicating climate change through New Zealand's television news. XVIII CICOM International Conference of Communication 2013.

Rifkin W., Longnecker N., Leach J. and **Davis L.** (2011). Worried about Engagement? Have students create 'new media', Australian Conference on Science and Mathematics Education, Melbourne, 8pp

Rifkin W., Longnecker N., Leach J. and **Davis L.** (2010) Blogging Biology & Podcasting Physics: Authentic Learning via Student Creation of New Media. *Proceedings of the 16th UniServe Science Annual Conference, University of Sydney, Sept 29th to Oct 1st, 2010*, p 113-115.

Davis L., Rifkin W., Longnecker N., and Leach, J. (2009). New media to develop graduate attributes of science students. Australian Society for Computers in Learning in Tertiary Education (ASCILITE) Conference Proceedings, Auckland, NZ, pp. 1208-1210