

CURRICULUM VITAE
ANDREW C. CLARKE, PHD

Leverhulme Early Career Fellow
McDonald Institute for Archaeological Research, University of Cambridge
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Academic Positions

- Feb 2015—** Research Associate, Corpus Christi College, University of Cambridge, Cambridge, United Kingdom
- Oct 2014—** Leverhulme Early Career Fellow, McDonald Institute for Archaeological Research, University of Cambridge, Cambridge, United Kingdom
- 2012–2014** Research Fellow, School of Life Sciences, University of Warwick, Coventry, United Kingdom
With Dr Robin Allaby
- 2009–2011** Postdoctoral Fellow, Allan Wilson Centre for Molecular Ecology and Evolution, Department of Anatomy, University of Otago, New Zealand (Feb–Jul 2009 in the Department of Anthropology, University of Auckland, New Zealand)
With Prof. Lisa Matisoo-Smith on The Genographic Project
- Jul–Sep 2004** Summer Intern, National Museum of Natural History, Smithsonian Institution, Washington, D.C., United States
Advised by Dr Bruce Smith (NMNH) and Prof. Noreen Tuross (Harvard University)
- 2001–2002** Student Fellow, New Zealand Institute for Crop & Food Research, Lincoln, New Zealand
With Dr John McCallum

Education

- 2009** PhD in Plant Biology, Massey University, Palmerston North, New Zealand
Supervised by Distinguished Prof. David Penny, Prof. Peter Lockhart, Dr John McCallum (Crop & Food Research) and Prof. Lisa Matisoo-Smith (University of Auckland)
- 2002** Bachelor of Science with First Class Honours (BSc(Hons)) in Plant Biology, Massey University, Palmerston North, New Zealand
- 2001** Bachelor of Science (BSc) in Physiological & Molecular Plant Biology, and Ecology (Double Major), Massey University, Palmerston North, New Zealand

Refereed Papers

Mean impact factor = 5.4 (Web of Knowledge); H-index = 10 (Google Scholar; as at 1 July 2014)

Allaby, R. G., Gutaker, R., **Clarke, A. C.**, Pearson, N., Ware, R., Palmer, S. A., Kitchen, J. L., and Smith, O. 2015. Using archaeogenomic and computational approaches to unravel the history of local adaptation in crops. *Philosophical Transactions of the Royal Society B: Biological Sciences* **370**: Article 20130377.

Clarke, A. C., Prost, S., Stanton, J.-A. L., White, W. T. J., Kaplan, M. E., Matisoo-Smith, E. A., and The Genographic Consortium. 2014. From cheek swabs to consensus sequences: an A to Z protocol for high-throughput DNA sequencing of complete human mitochondrial genomes. *BMC Genomics* **15**: Article 68.

★ *Designated by BioMed Central as a 'Highly accessed' BMC Genomics article, with over 4500 views*

- Storey, A. A., **Clarke, A. C.**, Ladefoged, T., Robins, J., and Matisoo-Smith, E. 2013. DNA and Pacific commensal models: applications, construction, limitations, and future prospects. *Journal of Island & Coastal Archaeology* **8**: 37–65.
★ Ranked as the 3rd most-viewed article (top 1%) published in the *Journal of Island & Coastal Archaeology*
- Saslis-Lagoudakis, C. H., and **Clarke, A. C.** 2013. Ethnobiology: the missing link in ecology and evolution. *Trends in Ecology & Evolution* **28**: 67–68.
- Knapp, M., **Clarke, A. C.**,[†] Horsburgh, K. A.,[†] and Matisoo-Smith, E. A. 2012. Setting the stage — building and working in an ancient DNA laboratory. *Annals of Anatomy* (Special Issue: Ancient DNA) **194**: 3–6.
[†] Equal contributors
- Stölting, K. N., **Clarke, A. C.**, Meudt, H. M., Blankenhorn, W. U., and Wilson, A. B. 2011. Cost-effective fluorescent amplified fragment length polymorphism (AFLP) analyses using a three primer system. *Molecular Ecology Resources* **11**: 494–502.
- Seelenfreund, D., **Clarke, A. C.**, Oyanedel, N., Piña, R., Lobos, S., Matisoo-Smith, E. A., and Seelenfreund, A. 2010. Paper mulberry (*Broussonetia papyrifera*) as a commensal model for human mobility in Oceania: anthropological, botanical and genetic considerations. *New Zealand Journal of Botany* **48**: 231–247.
- McCallum, J., Thomson, S., Pither-Joyce, M., Kenel, F., **Clarke, A.**, and Havey, M. J. 2008. Genetic diversity analysis and single-nucleotide polymorphism marker development in cultivated bulb onion based on expressed sequence tag-simple sequence repeat markers. *Journal of the American Society for Horticultural Science* **133**: 810–818.
- Holland, B. R.,[†] **Clarke, A. C.**,[†] and Meudt, H. M.[†] 2008. Optimizing automated AFLP scoring parameters to improve phylogenetic resolution. *Systematic Biology* **57**: 347–366.
[†] Joint first authors
- Michel, C., Hicks, B. J., Stölting, K. N., **Clarke, A. C.**, Stevens, M. I., Tana, R., Meyer, A., and van den Heuvel, M. R. 2008. Distinct migratory and non-migratory ecotypes of an endemic New Zealand eleotrid (*Gobiomorphus cotidianus*) — implications for incipient speciation in island freshwater fish species. *BMC Evolutionary Biology* **8**: Article 49.
- van den Heuvel, M. R., Michel, C., Stevens, M. I., **Clarke, A. C.**, Stölting, K. N., Hicks, B. J., and Tremblay, L. A. 2007. Monitoring the effects of pulp and paper effluent is restricted in genetically distinct populations of common bully (*Gobiomorphus cotidianus*). *Environmental Science & Technology* **41**: 2602–2608.
- Meudt, H. M., and **Clarke, A. C.** 2007. Almost Forgotten or Latest Practice? AFLP applications, analyses and advances. *Trends in Plant Science* **12**: 106–117.
★ Ranked in the top 2% of cited papers published in *Trends in Plant Science*, with 275 citations (*Web of Science*)
- Clarke, A. C.**, Burtenshaw, M. K., McLenachan, P. A., Erickson, D. L., and Penny, D. 2006. Reconstructing the origins and dispersal of the Polynesian bottle gourd (*Lagenaria siceraria*). *Molecular Biology and Evolution* **23**: 893–900.
- McCallum, J., **Clarke, A.**, Pither-Joyce, M., Shaw, M., Butler, R., Brash, D., Scheffer, J., Sims, I., van Heusden, S., Shigyo, M., and Havey, M. J. 2006. Genetic mapping of a major gene affecting onion bulb fructan content. *Theoretical and Applied Genetics* **112**: 958–967.
- Erickson, D. L., Smith, B. D., **Clarke, A. C.**, Sandweiss, D. H., and Tuross, N. 2005. An Asian origin for a 10,000-year-old domesticated plant in the Americas. *Proceedings of the National Academy of Sciences of the United States of America* **102**: 18315–18320.

Book Chapters

- Jones, T. L., **Clarke, A. C.**, Cordero, M.-A., Green, R. C., Irwin, G., Klar, K. A., Matisoo-Smith, E. A., Quiróz, D., Ramírez-Aliaga, J. M., Scaglione, R., Storey, A. A., and Weisler, M. I. 2011. Summary and conclusions. In Jones, T. L., Storey, A. A., Matisoo-Smith, E. A., and Ramírez-Aliaga, J. M. (Eds), *Polynesians in America: Pre-Columbian Contacts with the New World*, pp. 263–276. Rowman & Littlefield: Lanham, Maryland, United States.
- Storey, A. A., **Clarke, A. C.**, and Matisoo-Smith, E. A. 2011. Identifying contact with the Americas: a commensal-based approach. In Jones, T. L., Storey, A. A., Matisoo-Smith, E. A., and Ramírez-Aliaga, J. M. (Eds), *Polynesians in America: Pre-Columbian Contacts with the New World*, pp. 111–138. Rowman & Littlefield: Lanham, Maryland, United States.

Refereed Conference Proceedings

- McCallum, J., Pither-Joyce, M., **Clarke, A.**, Kik, C., Van Heusden, S., Jakse, J., and Havey, M. J. 2005. Towards a framework PCR-based map of onion (*Allium cepa* L.). In Liu, G. (Ed.), *Proceedings of the Fourth International Symposium on Edible Alliaceae*, Beijing, China, 21–26 April, 2004, pp. 173–178. Acta Horticulturae 688. International Society for Horticultural Science: Leuven, Belgium.

Consortium Papers

- Gaieski, J. B., Owings, A. C., Vilar, M. G., Dulik, M. C., Gaieski, D. F., Gittelman, R. M., Lindo, J., Gau, L., Schurr, T. G., and **The Genographic Consortium**. 2011. Genetic ancestry and indigenous heritage in a Native American descendant community in Bermuda. *American Journal of Physical Anthropology* **146**: 392–405.
- Balanovsky, O., Dibirova, K., Dybo, A., Mudrak, O., Frolova, S., Pocheshkhova, E., Haber, M., Platt, D., Schurr, T., Haak, W., Kuznetsova, M., Radzhabov, M., Balaganskaya, O., Romanov, A., Zakharova, T., Soria Hernanz, D. F., Zalloua, P., Koshel, S., Ruhlen, M., Renfrew, C., Wells, R. S., Tyler-Smith, C., Balanovska, E., and **The Genographic Consortium**. 2011. Parallel evolution of genes and languages in the Caucasus region. *Molecular Biology and Evolution* **28**: 2905–2920.
- Yan, S., Wang, C.-C., Li, H., Li, S.-L., Jin, L., and **The Genographic Consortium**. 2011. An updated tree of Y-chromosome Haplogroup O and revised phylogenetic positions of mutations P164 and PK4. *European Journal of Human Genetics* **19**: 1013–1015. [Corrigendum: *Eur. J. Hum. Genet.* 2011. **19**: 1018.]
- Cai, X., Qin, Z., Wen, B., Xu, S., Wang, Y., Lu, Y., Wei, L., Wang, C., Li, S., Huang, X., Jin, L., Li, H., and **The Genographic Consortium**. 2011. Human migration through bottlenecks from Southeast Asia into East Asia during Last Glacial Maximum revealed by Y chromosomes. *PLoS ONE* **6**: Article e24282.
- Martínez-Cruz, B., Ziegler, J., Sanz, P., Sotelo, G., Anglada, R., Plaza, S., Comas, D., and **The Genographic Consortium**. 2011. Multiplex single-nucleotide polymorphism typing of the human Y chromosome using TaqMan probes. *Investigative Genetics* **2**: Article 13.
- Yang, K., Zheng, H., Qin, Z., Lu, Y., Farina, S. E., Li, S., Jin, L., Li, D., Li, H., and **The Genographic Consortium**. 2011. Positive selection on mitochondrial M7 lineages among the Gelong people in Hainan. *Journal of Human Genetics* **56**: 253–256.
- Adler, C. J., Haak, W., Donlon, D., Cooper, A., and **The Genographic Consortium**. 2011. Survival and recovery of DNA from ancient teeth and bones. *Journal of Archaeological Science* **38**: 956–964.
- Haber, M., Platt, D. E., Badro, D. A., Xue, Y., El-Sibai, M., Ashrafian Bonab, M., Youhanna, S. C., Saade, S., Soria-Hernanz, D. F., Royyuru, A., Wells, R. S., Tyler-Smith, C., Zalloua, P. A., and **The Genographic Consortium**. 2011. Influences of history, geography, and religion on genetic structure: the Maronites in Lebanon. *European Journal of Human Genetics* **19**: 334–340.
- Melé, M., Javed, A., Pybus, M., Calafell, F., Parida, L., Bertranpetit, J., and **The Genographic Consortium**. 2010. A new method to reconstruct recombination events at a genomic scale. *PLoS Computational Biology* **6**: Article e1001010.
- Qin, Z., Yang, Y., Kang, L., Yan, S., Cho, K., Cai, X., Lu, Y., Zheng, H., Zhu, D., Fei, D., Li, S., Jin, L., Li, H., and **The Genographic Consortium**. 2010. A mitochondrial revelation of early human migrations to the Tibetan Plateau before and after the Last Glacial Maximum. *American Journal of Physical Anthropology* **143**: 555–569.
- Haak, W., Balanovsky, O., Sanchez, J. J., Koshel, S., Zaporozhchenko, V., Adler, C. J., Der Sarkissian, C. S. I., Brandt, G., Schwarz, C., Nicklisch, N., Dresely, V., Fritsch, B., Balanovska, E., Villems, R., Meller, H., Alt, K. W., Cooper, A., and **The Genographic Consortium**. 2010. Ancient DNA from European Early Neolithic farmers reveals their Near Eastern affinities. *PLoS Biology* **8**: Article e1000536.

Theses

- Clarke, A. C.** 2009. *Origins and Dispersal of the Sweet Potato and Bottle Gourd in Oceania: Implications for Prehistoric Human Mobility*. Unpublished PhD thesis. Massey University, Palmerston North, New Zealand.
- Clarke, A. C.** 2001. *Did Polynesian voyagers introduce the sweet potato (Ipomoea batatas) into Oceania from South America? A start on the molecular evidence*. Unpublished BSc(Hons) Report. Massey University, Palmerston North, New Zealand.

Non-Refereed Publications

- Clarke, A.**, and Burtenshaw, M. 2006. Origins and dispersal of the Māori bottle gourd. In Baxter, K. (Ed.), *Koanga Gardens Seed Catalogue 2006: The Dance of Life*, pp. 11–13. Koanga Institute: Maungaturoto, New Zealand.
- Clarke, A.** 2006. Origins and dispersal of the Polynesian bottle gourd — Ngā Orokohanga me ngā Tuaritanga o te Hue o Te Moana nui a Kiwa. *Allan Wilson Centre for Molecular Ecology and Evolution Newsletter* **4**: 1–3.
★ *First article to appear in both Te Reo Māori and English (as part of ongoing Māori outreach)*

Conference Presentations

* indicates presenting author

- Prost, S.,* **Clarke, A.**, Addison, D., and Matisoo-Smith, L. 2013. Reconstructing human colonization of Polynesia using molecular data. Presented at the *82nd Annual Meeting of the American Association of Physical Anthropologists*, 9–13 April 2013, Knoxville, Tennessee, United States. [Published abstract: *Am. J. Phys. Anthropol.* 2013. **150**: S226.]

- Prost, S.,* **Clarke, A.**, Kardailsky, O., Addison, D., and Matisoo-Smith, L. 2013. MtDNA and Y Chromosome evidence for the origins and population history of Tokelau. Presented at the *Society for American Archaeology 78th Annual Meeting*, 3–7 April 2013, Honolulu, Hawai'i, United States.
- Clarke, A. C.**,* Holland, B. R., McLenachan, P. A., Nakatani, M., Matthews, P. J., Green, R. C., and Penny, D. 2011. Evidence for prehistoric human contact between Polynesia and South America: DNA analysis of the sweet potato (*Ipomoea batatas*). Presented at *Botany 2011: Healing the Planet* (Charles Heiser Special Contributed Paper Session), 9–13 July 2011, St. Louis, Missouri, United States.
- Clarke, A. C.**,* Mitchell, R. J., and Matisoo-Smith, E. A. 2010. Further elucidation of Oceanic settlement with mitochondrial DNA and Y chromosome genotyping. Presented at the *Australasian Society for Human Biology 24th Annual Conference*, 28 November–1 December 2010, Auckland, New Zealand.
- Clarke, A. C.**,* and Green, R. C. 2010. Polynesian Contacts: The Botanical Record. Presented at the *Society for American Archaeology 75th Anniversary Meeting*, 14–18 April 2010, St. Louis, Missouri, United States.
- Clarke, A. C.**,* Green, R. C., Holland, B. R., McLenachan, P. A., and Penny, D. 2007. Pre-European human contact between Polynesia and South America? DNA analysis of the sweet potato and bottle gourd. Presented at the *Evolution 2007 Conference*, 16–20 June 2007, Christchurch, New Zealand.
- Holland, B. R.,* **Clarke, A. C.**, and Meudt, H. M. 2007. Improving phylogenetic resolution in AFLP fingerprinting studies by tuning automated scoring parameters. Presented at the *Evolution 2007 Conference*, 16–20 June 2007, Christchurch, New Zealand.
- Clarke, A. C.**,* Burtenshaw, M. K., McLenachan, P. A., Erickson, D. L., Smith, B. D., and Penny, D. 2005. Prehistoric human contact between Polynesia and South America? DNA analysis of the bottle gourd. Presented at the *Molecular Biology and Evolution Conference 2005*, 19–23 June 2005, Auckland, New Zealand.
- Clarke, A.** 2003. Using DNA sequence data to trace the origins and dispersal of sweet potato and bottle gourd in Polynesia: Implications for human mobility. Presented at the *Australasian Society for Human Biology Annual Conference*, 7–10 December 2003, Auckland, New Zealand.

Conference Posters

* indicates presenting author

- Clarke, A. C.**,* Holland, B. R., McLenachan, P. A., Nakatani, M., Matthews, P. J., Green, R. C., and Penny, D. 2011. Evidence for prehistoric human contact between Polynesia and South America: DNA analysis of the sweet potato (*Ipomoea batatas*). Presented at *IBC2011: XVIII International Botanical Congress*, 23–30 July 2011, Melbourne, Victoria, Australia.
- Clarke, A. C.**,* Mitchell, R. J., and Matisoo-Smith, E. A. 2010. Reconstructing migratory routes of Oceanic peoples from GS FLX sequencing of complete mitochondrial genomes. Presented at the *New Zealand Next Generation Sequencing Conference*, 23–24 August 2010, Dunedin, New Zealand.
- Clarke, A. C.**,* Mitchell, R. J., and Matisoo-Smith, E. A. 2009. Reconstructing migration patterns of Oceanic peoples using mitochondrial and Y chromosome DNA. Presented at *ComBio 2009*, 6–10 December 2009, Christchurch, New Zealand.
- Adams, S.,* **Clarke, A.**, and Ramstad, K. 2007. Managing indigenous research collaborations: the influence of the Treaty of Waitangi when undertaking research in New Zealand. Presented at the *Australasian Research Management Society Annual Conference*, 19–21 September 2007, Adelaide, South Australia, Australia.
- McCallum, J. A.,* Thomson, S., Kenel, F., Pither-Joyce, M., **Clarke, A. C.**, Holland, B., Jakse, J., and Havey, M. J. 2006. Assessment of genetic diversity in bulb onion (*Allium cepa* L.) using simple sequence repeat markers. Presented at the *Plant & Animal Genomes XIV Conference*, 14–18 January 2006, San Diego, California, United States.
- McCallum, J.,* Pither-Joyce, M., Shaw, M., Kenel, F., Sims, I., and **Clarke, A.** 2004. QTL analysis of onion bulb carbohydrate composition. Presented at the *Queenstown Molecular Biology Meeting 2004*, 28 November–1 December 2004, Queenstown, New Zealand.
- Clarke, A. C.**,* McLenachan, P. A., and Penny, D. 2004. Reconstructing prehistoric human contact between Polynesia and South America: molecular analysis of the sweet potato and bottle gourd. Presented at the *Evolution 2004 Conference*, 26–30 June 2004, Fort Collins, Colorado, United States.
- McCallum, J. A.,* Pither-Joyce, M., **Clarke, A.**, Kik, C., Van Heusden, A. W., Jakse, J., and Havey, M. J. 2004. Towards a framework PCR-based map of onion. Presented at the *4th International ISHS Symposium on Edible Alliaceae*, 21–26 April 2004, Beijing, China.
- McCallum, J. A.,* Pither-Joyce, M., **Clarke, A.**, Kik, C., Van Heusden, A. W., Jakse, J., and Havey, M. J. 2004. Towards a framework PCR-based map of onion. Presented at the *29th Lorne Conference on Protein Structure and Function*, 8–12 February 2004, Lorne, Victoria, Australia.

Invited Presentations — Professional

Excludes in-house departmental seminars; * indicates presenting author

- Clarke, A. C.** 2013. The first global crop: 10,000 years of bottle gourd dispersal. Presented at the *George Pitt-Rivers Laboratory for Bioarchaeology Seminar*, Division of Archaeology and the McDonald Institute for Archaeological Research. 29 November 2013, University of Cambridge, Cambridge, United Kingdom.
- Clarke, A. C.** 2009. Prehistoric human contact between Polynesia and South America: DNA analysis of the sweet potato and bottle gourd. Presented to the Max Planck Institute for Evolutionary Anthropology. 13 May 2009, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.
- Clarke, A. C.** 2009. Origins of sweet potato and bottle gourd in Polynesia: pre-European contacts with South America? [Orígenes del camote y la calabaza en Polinesia: ¿Contactos pre-Europeos con Sudamérica?] Presented to the Centro Internacional de la Papa (CIP). 15 April 2009, Centro Internacional de la Papa (CIP), Lima, Peru.
- Clarke, A. C.** 2009. Instrumentos moleculares para contestar preguntas antropológicas: la utilización del análisis de ADN de Océano Pacífico para revelar la migración humana. [Molecular tools to answer anthropological questions: using DNA analysis of Pacific crops to reveal human migration.] Presented to the Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile. 1 April 2009, Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile.
- Clarke, A. C.** 2009. Orígenes del camote y la calabaza en Polinesia: ¿Contactos prehistóricos con Sudamérica? [Origins of sweet potato and bottle gourd in Polynesia: prehistoric contacts with South America?] Presented to the Universidad Academia de Humanismo Cristiano. 31 March 2009, Universidad Academia de Humanismo Cristiano, Santiago, Chile.
- Clarke, A. C.** 2008. Using DNA to reconstruct the origins and dispersal of the sweet potato and bottle gourd in Oceania. Presented to the Department of Anthropology, University of Auckland. 7 August 2008, University of Auckland, Auckland, New Zealand.
- Clarke, A. C.** 2008. AFLP fingerprinting in plants: applications, analyses and advances. Presented at the *Palmerston North Plant Biology Meeting*. 31 July 2008, Bio Commerce Centre, Palmerston North, New Zealand.
- Clarke, A. C.*** Burtenshaw, M. K., McLenachan, P. A., Erickson, D. L., Smith, B. D., and Penny, D. 2005. Prehistoric human contact between Polynesia and South America? DNA analysis of the bottle gourd. Presented at the *Society for Molecular Biology and Evolution Tri-National Young Investigators' Workshop 2005*, 24–26 June 2005, Te Manawa, Palmerston North, New Zealand.
- Clarke, A. C.** 2004. Origins and dispersal of the sweet potato and bottle gourd in Polynesia. Presented at the *Palmerston North Plant Biology Meeting*. 24 November 2004, Massey University, Palmerston North, New Zealand.
- Clarke, A. C.** 2002. The sweet potato in Oceania: molecular tools to answer an ethnobotanical question. Presented at the *Crop & Food Research Seminar*. 30 August 2002, Crop & Food Research, Lincoln, New Zealand.

Invited Presentations — Public

* indicates presenting author

- Clarke, A. C.** 2015. 800 years in Aotearoa New Zealand and 800 years at the University of Cambridge. Presented to the Rotary Club of Levin. 20 January 2015, Western House, Levin, New Zealand.
- Clarke, A. C.*** Gutaker, R. M., Smith, O., Ware, R. L., and Allaby, R. G. 2013. Stories from the past: how crops have evolved. Presented at the *Warwick Crop Centre Open Afternoon*. 18 September 2013, University of Warwick, Wellesbourne, United Kingdom.
- Clarke, A. C.** 2012. The origins of the first New Zealanders, their relatives, and ancestors: tracing Pacific migration using DNA. Presented to the Year 13 Biology Class, Horowhenua College. 29 March 2012, Horowhenua College, Levin, New Zealand.
- Clarke, A. C.** 2012. From cheek swabs to deep ancestry: using DNA to understand the peopling of the Pacific. Presented to the Rotary Club of Levin. 14 February 2012, Focal Point Cinema, Levin, New Zealand.
- Clarke, A. C.** 2010. Tracing human migration in the Pacific: The Genographic Project. Presented to the Year 12 & 13 Biology Classes, Horowhenua College. 26 October 2010, Horowhenua College, Levin, New Zealand.
- Clarke, A. C.** 2009. Tracing human migration in the Pacific: The Genographic Project. Presented to the Year 13 Biology Class, Horowhenua College. 15 June 2009, Horowhenua College, Levin, New Zealand.
- Clarke, A. C.** 2008. Pre-European human contact between Polynesia and South America? DNA analysis of the sweet potato and bottle gourd. Presented to the Hawkes Bay Branch of the Royal Society of New Zealand. 18 November 2008, The Faraday Centre, Napier, New Zealand.
- Clarke, A. C.** 2008. Tracing human migration in the Pacific: DNA analysis of the kumara and bottle gourd. Presented to the Year 13 Biology Class, Horowhenua College. 5 November 2008, Horowhenua College, Levin, New Zealand.
- Clarke, A. C.** 2008. Tracking the dispersal of kumara and hue. Presented at the *Tikanga and Technology Hui: A New Net Goes Fishing*. 30 April–2 May 2008, Museum of New Zealand Te Papa Tongarewa, Wellington, New Zealand.

- Clarke, A. C.** 2007. Using DNA to track the dispersal of kūmara in the Pacific. Presented at the *Kumara and Kawa Hui*. 24–26 May 2007, Pokai Marae, Tikapa, Ruatoria, New Zealand.
- Clarke, A. C.** 2006. Tracing human migration in the Pacific: DNA analysis of the kūmara and bottle gourd. Presented to the Year 13 Biology Class, Horowhenua College. 6 November 2006, Horowhenua College, Levin, New Zealand.

Teaching & Laboratory Supervision

School of Life Sciences, University of Warwick, Coventry, United Kingdom

2013–2014	Tutor	Postgraduate Taught Writing Mentor Scheme
2013–2014	Supervisor	Claudia Payacán, Allaby Research Group visiting student from the Universidad de Chile: “Genetic characterization of ancient herbarium samples of <i>Broussonetia papyrifera</i> L. Vent. (family Moraceae) collected in the Pacific”
2012–2013	Tutor	Postgraduate Taught Writing Mentor Scheme

Institute of Molecular BioSciences, Massey University, Palmerston North, New Zealand

2005	Supervisor	Carlene Starck, Allan Wilson Centre summer student: “Genetic diversity in taro (<i>Colocasia esculenta</i>)”
2004	Guest Lecturer	120.218 Flora of New Zealand
2003	Supervisor	Joy O’Connor, Allan Wilson Centre summer student: “Genetic diversity in taro (<i>Colocasia esculenta</i>)”
2003	Guest Lecturer	120.303 Advanced New Zealand Botany
2003	Lab Demonstrator	120.101 Biology of Plants (extramural); 162.101 Biology of Cells; 120.218 Flora of New Zealand; 122.326/162.751 Bioinformatics & Genomics
2003	Tutor	162.101 Biology of Cells
2002	Lab Demonstrator	120.101 Biology of Plants; 120.218 Flora of New Zealand; 122.326/162.751 Bioinformatics & Genomics
2002	Tutor	120.101 Biology of Plants
2001	Lab Demonstrator	120.101 Biology of Plants
2001	Tutor	120.101 Biology of Plants

Editorial Responsibilities

2014— Editorial Board Member, *Scientific Reports* (Nature Publishing Group)

Reviewing Responsibilities

Agronomy New Zealand (2011), *Annals of Applied Biology* (2006; 2007), *Belgian Journal of Botany* (2007), *Irrigated Taro (*Colocasia esculenta*) in the Indo-Pacific* (2010), *Journal of Evolutionary Biology* (2011), *Journal of the Royal Society of New Zealand* (2008), *Molecular Biology and Evolution* (2011), *Molecular Ecology* (2012), *Molecular Ecology Resources* (2011; 2013), *PLOS ONE* (2011; 2012; 2013), *PNAS* (2013).

Other Professional Responsibilities

2011–2012	Trustee, Sustainability Institute Foundation, Auckland, New Zealand
2010—	Committee member and wikimaster, New Zealand Plant Radiation Network (NZPRN)
2010–2011	Administrator, Genographic Consortium, The Genographic Project, National Geographic Society, Washington, DC, United States
2009—	Member, Genographic Consortium, The Genographic Project, National Geographic Society, Washington, DC, United States
Apr–Jun 2007	Scientific Programme Organiser, <i>Evolution 2007 Conference</i> , 16–20 June 2007, Christchurch, New Zealand
2006	Programme Organiser, <i>Allan Wilson Centre Young Scientists’ Symposium</i> , 11–12 October 2006, Massey University, Palmerston North, New Zealand

- 2005** Doctoral Student Representative, Doctoral Research Committee, Massey University, Palmerston North, New Zealand
- 2002–2011** Member, Allan Wilson Centre for Molecular Ecology and Evolution, New Zealand

Professional & Learned Society Memberships

New Zealand Society of Plant Biologists, Society for Economic Botany, Society of Systematic Biologists.

Scholarships & Fellowships

- 2014–2017** £87,000 (GBP) Leverhulme Early Career Fellowship, Leverhulme Trust (hosted by the McDonald Institute for Archaeological Research, University of Cambridge)
- 2014–2017** £69,000 (GBP) Isaac Newton Trust (Leverhulme matching funding), Trinity College, Cambridge
- 2004** \$1,900 (USD) Summer Internship Stipend, Smithsonian Institution
- 2004** \$6,500 (NZD) Studentship, New Zealand Institute for Crop & Food Research
- 2002–2005** \$72,000 (NZD) Massey University Doctoral Scholarship, Massey University
- 2001** \$1,000 (NZD) J. P. Skipworth Scholarship for Plant Biology, Massey University

Grants

- 2014** £26,000 (GBP) Research grant, McDonald Institute for Archaeological Research, University of Cambridge: “FOGLIP: Food Globalisation in Prehistory”
- 2013** \$12,000 (NZD) Research grant, Institute of Fundamental Sciences, Massey University
- 2013** £5,000 (GBP) SLS Pump Priming Fund, School of Life Sciences, University of Warwick: “Archaeogenetics of the first global crop: ancient DNA from archaeological bottle gourd”
- 2013** £1,900 (GBP) RCUK grant for open access publishing
- 2011** \$12,000 (NZD) Department of Anatomy Performance-Based Research Fund, University of Otago
- 2010** \$13,000 (NZD) Department of Anatomy Performance-Based Research Fund, University of Otago
- 2005** \$750 (NZD) Institute of Molecular BioSciences Travel Grant, Massey University (to attend the Molecular Biology and Evolution Conference 2005, Auckland, New Zealand)
- 2004** \$1,000 (NZD) Institute of Molecular BioSciences Travel Grant, Massey University (to attend the Evolution 2004 Conference, Fort Collins, Colorado, United States)
- 2004** \$1,000 (NZD) Royal Society of New Zealand Travel Grant (to attend the Evolution 2004 Conference, Fort Collins, Colorado, United States)
- 2002** \$500 (NZD) Institute of Molecular BioSciences Travel Grant, Massey University (to attend the XIX International Congress of Genetics, Melbourne, Australia)

Awards

- 2005** Invited Participant, Society for Molecular Biology and Evolution Young Investigators' Workshop
- 2005** People and Society Category Runner-Up, New Zealand MacDiarmid Young Scientists of the Year Awards
- 2004** Best Student Poster, Allan Wilson Centre for Molecular Ecology and Evolution Annual Conference
- 2003** Best Student Paper, Australasian Society for Human Biology Annual Conference

Media Articles (Selected)

Scientists solve mystery of world-traveling plant. 2014. *ScienceNOW*, 10 February 2014. [Independent expert comment on *PNAS*. 2014. **111**: 2937–2941.]

Interview with Andrew Clarke: Genographic Postdoc, Oceania. 2010. *Genographica* (The Genographic Project blog), 27 September 2010.

Beyond *Kon-Tiki*: Did Polynesians Sail to South America? 2010. *Science* **328**: 1344–1347.

DNA analysis expected to solve kumara row. 2007. *The New Zealand Herald Newspaper*, 8 February 2007.

Debate over origins of kumara. 2007. *One News Television News*, 3 February 2007.

Tracking the well-traveled bottle gourd. 2006. *Mammoth Trumpet* **21**: 4–8.

DNA profiling solves another cold case. 2006. *Spotlight on Science at the Smithsonian* **4**: 5.

Migration clues from fruit and veg. 2005. *The New Zealand Herald Newspaper*, 16 December 2005.

Ancient humans brought bottle gourds to the Americas from Asia. 2005. *Harvard Gazette*, 15 December 2005.

Origins of the sweet potato. 2003. Radio interview with Dr Peter Cleave on Kia Ora 89.8 FM, 8 February 2003.