



# ALEX R. CHAPMAN

Consulting Scientist

## PROFILE

Alex Chapman runs a taxonomic consultancy (<https://freonet.net/>) and is the current chair of [ACSA-WA](#).

He recently participated in Yilgarn field surveys for Western Botanical.

A Consulting Scientist at [Gaia Resources](#), working in project management, business development and systems analysis in citizen science and collections systems.

Alex is also a Research Associate at the Western Australian Herbarium, having worked there between 1990-2014 as a Research Scientist managing the online publications and bioinformatics group. He is a past editor of WA's journal of systematic botany *Nuytsia* and his systematic research is primarily in the Ericaceae (Epacridoideae).

In 1998 this work culminated in the launch of [FloraBase – the Western Australian Flora](#). In 2000, he co-authored [The Western Australian flora – a descriptive catalogue](#).

He represented the WA Herbarium at the Nomenclature Section of two International Botanical Conferences.

Between 2002 and 2008 he was the Oceania representative of the Taxonomic Databases Working Group (TDWG) and was an inaugural member of the Herbarium Information Systems Committee (HISCOM), a working group of the Council of Heads of Australasian Herbaria (CHAH).

## CONTACT

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## HOBBIES

Music, Poetry, Bushwalking, Plant ID

## EDUCATION

### Postgrad Dipl. Computer Science (Murdoch University) 1990

The Special Project was entitled 'Systems analysis for the curation of new herbarium collections' and was the basis for the total revamping of label generation processes for new specimens in the WA Herbarium.

### Masters Pr. (University of Sydney) 1985

The major project was entitled 'Taxonomic studies in the genus *Monotoca* R.Br. (Epacridaceae)'. It was awarded a Distinction.

### B.Sc. (University of New England) 1982

Botany/Biochemistry majors.

## WORK EXPERIENCE

### Taxonomic Consultancy

2021 – present

Taxonomic services, data analysis, field survey & citizen science apps.

### Gaia Resources – Consulting Scientist

2014 – 2021

Gaia Resources in an Environmental Technology consultancy, working on business development, citizen science and collections systems.

### Western Australian Herbarium – Research Scientist

1990 – 2014

Systematics of Ericaceae, manager of the bioinformatics group, editor of *Nuytsia – WA's Journal of Systematic Botany*.

### Western Australian Herbarium – Researcher

1988 – 1990

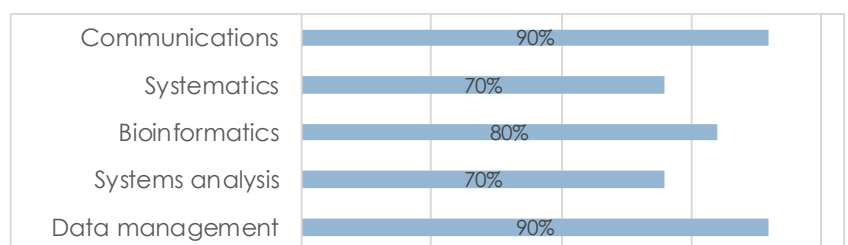
Taxonomic research and publication of revisionary papers in Australian *Acacia* for the ABRS Flora of Australia project.

### National Herbarium of NSW – Researcher

1983 – 1987

Taxonomic research and publication of revisionary papers in Australian *Leucopogon* for the ABRS Flora of Australia project.

## SKILLS



## COMPLETE EMPLOYMENT HISTORY

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- **Alex R. Chapman**
  - **Taxonomic Consultant** : July 2021 – present
    - Taxonomic services, data analysis and citizen science app design.
    - Chair, Australian Citizen Science Association – WA Chapter (ACSA-WA).
    - Social media for the Taxonomy Australia project.
    - Identification botanist with Alford Consulting.
    - Field survey and ID botanist in the Yilgarn with Western Botanical – 2022-23
- **Gaia Resources**
  - **Consulting Scientist** : August 2014 – May 2021
    - Citizen Science lead and Program Manager for CS app development
    - Subject matter expert in biological collections management, taxon nomenclature.
- **Department of Parks and Wildlife**
  - **Research Scientist, Western Australian Herbarium** : May 1990 – January 2014
    - Systematics of Ericaceae
    - Application of bioinformatics to herbarium practice
    - Represented the WA Herbarium at the Nomenclature Section of two International Botanical Conferences (St. Louis 1999 and Vienna 2005).
  - **Manager, FloraBase** : January 2000 – January 2014
    - Managing editor of *FloraBase - the Western Australian Flora* website.
  - **Scientific Editor, Nuytsia** : 2003 – 2007; **editorial board member**: 2011 – 2013
    - *Nuytsia* is the journal of systematic botany for Western Australia.
- **Edith Cowan University, School of Natural Sciences**
  - **Lecturer, Biodiversity Informatics** : 2008
    - Covering biodiversity information management practice from local to global perspective.
- **Herbarium Information Systems Committee (HISCOM)**
  - **Member, Convener** : 1993 – 2011
    - National information systems committee of the Council of Heads of Australian Herbaria
    - Advisor on technical aspects of designing and implementing the *Atlas of Living Australia*.
- **Taxonomic Databases Working Group**
  - **Oceania Regional Secretary** : 2002 – 2008
    - International committee developing global biodiversity data standards
    - Organised and hosted TDWG 2008 Conference of over 200 delegates in Fremantle.
- **Herbarium, Royal Botanic Gardens, Kew, London**
  - **Australian Botanical Liaison Officer** : 1998 – 1999
    - Eyes and ears of the Australasian botanical community at major herbaria such as Kew, the British Museum, Edinburgh, Paris, St Petersburg etc.
    - UK liaison for Australasian botanical research and work-related research projects.
- **Department of Conservation and Land Management**
  - **ABRS Flora of Australia project (Acacia)** : March 1988 – April 1990
    - Taxonomic research and publication of revisionary papers in primarily WA *Acacia*.
- **National Herbarium of NSW, Royal Botanic Gardens, Sydney**
  - **ABRS Flora of Australia project (Leucopogon)** : December 1983 – June 1987
    - Taxonomic research and publication of revisionary papers in Australian *Leucopogon*.

## APPENDICES

### APPENDIX 1. SELECTED PUBLICATIONS

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- Chapman AR (2023). ABLO 42. Chapter in 'The Australian Botanical Liaison Officer Scheme at Kew, 1937—2009'. AS George (ed.) Four Gables Press, Kardinya.
- Daniel Falster D *et al.* (2021). AusTraits – a curated plant trait database for the Australian flora. [Sci Data](#). 2021; 8: 254..
- Chapman AR (2020). Western Australian flora statistics. Available at: <https://florabase.dpaw.wa.gov.au/statistics/> [Accessed 30 Jun 2020]. p. 4
- Chapman AR (2019). Phenological Analysis of *Eucalyptus wandoo* for Honey Bee Foraging. Cooperative Research Centre Honey Bee Products, UWA. Available at: <http://www.crchoneybeeproducts.com/phenological-analysis-of-eucalyptus-wandoo-for-honey-bee-foraging/>
- Huisman J, Chapman AR & Richardson B (2018). Twenty Years of FloraBase. *Landscape* 34(2) pp. 18-21
- Chapman AR, Paap T, Marbus C, Burgess TI, Hardy GESJ (2015). Utilising Citizen Science: communities monitoring Mari Canker incidence. *Australasian Plant Conservation: Journal of the Australian Network for Plant Conservation* 23 (5).
- Chapman AR *et al.* (2015). Utilising Citizen Science to Monitor *Corymbia calophylla* (Mari) Canker Incidence and Severity. *Australasian Plant Pathology Conference Proceedings*, Fremantle WA.
- Chapman AR (2012). A new species of *Monotoca* (Ericaceae: Styphelioideae: Styphelieae) from the south coast of Western Australia. *Nuytsia* **22**, pp. 323–328
- Chapman, AR (2012). Protologues, floras and taxon profiles: how many descriptions do we need? In: *Australasian Systematic Botany Society Conference 2012: Local Knowledge, Global Delivery: 23-28 September*, Perth, Western Australia. Department of Environment and Conservation, Kensington, WA. [Presentation]
- Chapman AR (2012). *Scientific Plant Names Dictionary Version: 3.0*. 14 November 2012. Available at: <http://florabase.dec.wa.gov.au/downloads/dictionary/> [accessed 14 Nov 2012].
- Gioia, P and Chapman, AR (2012). Atlas of Living Australia: where to now for State-based online systems? In: *Australasian Systematic Botany Society Conference 2012: Local Knowledge, Global Delivery: 23-28 September*, Perth, Western Australia. Department of Environment and Conservation, Kensington, WA. [Presentation]
- Chapman AR, Parker C, Biggs L (2010). *New linear systematic sequence for vascular plants*. Available at: <http://florabase.dec.wa.gov.au/articles/sequence/sequence> [Accessed 20 Jul 2010]. Dept of Environment and Conservation, Kensington, WA. 8 p.
- Richardson B, Chapman AR (2008). Ten years of FloraBase (POSTER ABSTRACT). In *Proceedings of TDWG: provisional abstracts of the 2008 Annual Conference of the Taxonomic Databases Working Group: 19-24 Oct 2008, Fremantle, Australia* (eds A Weitzman, L Belbin). pp. 99–100
- Chapman AR (2007). Mechanisms for coordination and delivery of descriptive data and taxon profiles in the Australasian Biodiversity Federation (ABSTRACT). In *Biodiversity Information Standards TDWG: the Proceedings of TDWG: Abstracts of the 2007 Annual Conference of the Taxonomic Databases Working Group: 16-22 September 2007, Bratislava, Slovakia* (eds A Weitzman, L Belbin). p. 45
- Hislop M, Chapman AR (2007). Three new and geographically restricted species of *Leucopogon* (Ericaceae: Styphelioideae: Styphelieae) from south-west Western Australia. *Nuytsia* **17**, pp. 165–184
- Chapman AR (2007). Database of Robert Brown's Australian botanical specimens available online in FloraBase. *Australian Systematic Botany Society Newsletter* 130, pp. 12–13

- Chapman AR, Whitbread G, Richardson B, Belbin L (comps) (2007). *Towards an LSID policy for the Australasian biodiversity federation: recommendations, Canberra LSID Workshop, ANBG, 2-4 April 2007*. Biodiversity Information Standards (TDWG), Canberra. 18 p.
- Whitbread G, Chapman AR, Richardson B (2007). LSID policy and implementation in Australia (ABSTRACT). In *Biodiversity Information Standards TDWG: the Proceedings of TDWG: Abstracts of the 2007 Annual Conference of the Taxonomic Databases Working Group: 16-22 September 2007, Bratislava, Slovakia* (eds A Weitzman, L Belbin). Biodiversity Information Standards (TDWG), St Louis. pp. 28–29
- Chapman AR (2004 onwards). *Western Australian flora statistics*. Available at: <https://florabase.dpaw.wa.gov.au/statistics/> [Accessed 30 June 2020]. pp. 1–3
- Chapman AR (Editor) (2004-2007). *Nuytsia*. Vol 15 & 16. Dept of Environment and Conservation, Kensington, WA. Available at: <https://florabase.dpaw.wa.gov.au/nuytsia/> [Accessed 23 Jan 2020].
- Chapman AR (2003). Australia's Virtual Herbarium and its links with global initiatives in biodiversity information management (ABSTRACT). In *150, National Herbarium of Victoria: Celebrating 150 Years of Plant Research in Australia: Conference Abstract Book: Australian Systematic Botany Society and the Australasian Mycological Society with the 7th Australasian Bryophyte Workshop, 29 September-3 October 2003, Melbourne, Victoria* p. 39 [Presentation]
- Chapman AR (2001). Directions for the structure of taxonomic descriptive data (ABSTRACT). In *Taxonomic Databases Working Group 17th Annual Meeting 9– 11 November, 2001: Program and Abstracts*. Royal Botanic Gardens, & Australian Museum, Sydney Australia. Available at: [http://plantnet.rbgsyd.gov.au/bioforum/TDWG\\_program/tdwg\\_abstracts.html#Chapman1](http://plantnet.rbgsyd.gov.au/bioforum/TDWG_program/tdwg_abstracts.html#Chapman1)
- Chapman AR & Maslin BR (2001). *Acacia* descriptions. In *Flora of Australia. Volume 11A and 11B, Mimosaceae, Acacia part 1* (eds A.E. Orchard & A.J.G. Wilson). CSIRO, Melbourne.
- Beard JS, Chapman AR, Gioia P (2000). Species richness and endemism in the Western Australian flora. *Journal of Biogeography* 27, pp. 1257–1268
- Paczkowska G, Chapman AR (2000). *The Western Australian flora: a descriptive catalogue*. CALM, Kings Park and Botanic Gardens & Wildflower Society of Western Australia, Nedlands. 652 p.
- Chapman AR (1999). Bioinformatics In Western Australia: management and dissemination of fundamental flora data sets (ABSTRACT). In 'International Symposium on Data Retrieval Systems In Biodiversity Research' Russian Academy Of Science, St. Petersburg. *Proceedings of the Zoological Institute* 278: 53. [Presentation]
- Chapman AR (1999). A Review of 'John Lindley 1799 - 1865, Gardener - Botanist and Pioneer Orchidologist, Bicentenary Celebration Volume', edited by William T. Stearn. *Aust. Syst. Bot. Soc. Newsletter* 98.
- Chapman AR (1999). *Australian Botanical Liaison Officer 1998–1999 – Final Report to ABRS, November 1999*, Western Australian Herbarium, Perth. p. 16
- Chapman AR (1999). Biological information systems (ABSTRACT). In *Dampier 300: Biodiversity in Australia, 1699–1999 and Beyond, 6 to 10 December 1999: Program and Abstracts* Royal Society of Western Australia, Perth. p. 32
- Chapman AR and Macfarlane TD (1999). Bioinformatics: management and publication of institutional descriptive datasets at the Western Australian Herbarium. *Australian Systematic Botany Society Newsletter* 100, pp. 6–11
- Chapman AR and Maslin BR (1999). *Acacia* miscellany. 20, descriptions of three new Western Australian species of *Acacia* section *Juliflorae* (Leguminosae: Mimosoideae). *Nuytsia* 12, pp. 487–491
- Maslin BR and Chapman AR (1999). *Acacia* miscellany. 19, the taxonomy of some Western Australian species of *Acacia* section *Juliflorae* with 4-merous flowers (Leguminosae: Mimosoideae). *Nuytsia* 12, pp. 469–486
- Gioia P, Chapman AR and Podger FD (1997). Development of GIS-based decision support tools and the databasing of Phytophthora-sensitive taxa. In *Control of Phytophthora and Diplodina Canker in Western Australia: Final Report to the Threatened Species and Communities Unit, Biodiversity Group, Environment Australia, May 1997* Dept of Conservation and Land Management, pp. 80–97

- Stace HM, Chapman AR, Lemson KL and Powell JM (1997). Cytoevolution, phylogeny and taxonomy in Epacridaceae. *Annals of Botany* **79**, pp. 283–290
- Behn G, Chapman AR, Conacher A and Wills R (1996). Development of GIS-based decision-support tools and the databasing of Phytophthora-sensitive taxa: final report. In *Control of Phytophthora and Diplodina Canker in Western Australia: Annual Report to the Endangered Species Unit*, Australian Nature Conservation Agency Dept of Conservation and Land Management, pp. 49–53
- Chapman AR and Choo M (1996). Institutional DELTA databases: a case study. *DELTA Newsletter* **12**, pp. 14–15
- Chapman AR and Gioia P (1996). *Critical assessment of the Plant Biodiversity Information System: consultancy report: prepared for the Botanic Gardens of Adelaide and State Herbarium*. Dept of Conservation and Land Management, 45 p.
- Curry S and Chapman AR (1996). Update to the informal names used in Flora of the Perth and Kimberley Regions. *Nuytsia* **10**, pp. 463–466
- Lander NS and Chapman AR (1996). Interactive identification and information retrieval with DELTA and Intkey (ABSTRACT). In *Software in Systematics, and Systematics: Advancing Knowledge and Conservation of Australia's Biodiversity: Programme and Abstracts: 1997 Joint National Conferences Australian Systematic Botany Society, Society for Australian Systematic Biologists, Australasian Mycological Society Joint National Conferences Organising Committee*, Adelaide. pp. 33–34
- Powell JM, Crayn DM, Gadek PA, Quinn CJ, Morrison DA and Chapman AR (1996). A re-assessment of relationships within Epacridaceae. *Annals of Botany* **77**, pp. 305–315
- Chapman AR and Gioia P (1995). The smart collection. *Landscape* **10(4)**, pp. 49–53
- Macfarlane T, Lander N and Chapman AR (1995). Angiosperm family identification and the Flora of Australia: a comment. *Australian Systematic Botany Society Newsletter* **83**, pp. 2–8
- Chapman AR, Lander N and Macfarlane T (1994). Workshop on taxonomic descriptive databases, Perth, October 1993. *Australian Systematic Botany Society Newsletter* **78**, pp. 14–16
- Chapman AR and Gioia P (1993). *Queensland Herbarium (BRI): analysis of strategic priorities and database recommendations*. Dept of Conservation and Land Management, 15 p.
- Chapman AR and Maslin BR (1992). *Acacia* miscellany. 5, a review of the *A. bivenosa* group (Leguminosae: Mimosoideae: section Phyllodineae). *Nuytsia* **8**, pp. 249–283
- Williams JB, and Chapman AR (1992). Ericaceae. In Harden, G.J. (ed.), *Flora of New South Wales* Vol. 3, pp. 399 – 400. University of NSW Press, Sydney.
- Powell JM, Chapman AR and Doust ANL (1987). Classification and generic status in the Epacridaceae – a preliminary analysis. *Australian Systematic Botany Society Newsletter* **53**, pp. 70 – 78.
- Powell JM, Hight J and Chapman AR (1986). Epacridaceae. In Jessop, J.P. and Toelken, H.R. (eds.), *Flora of South Australia Part 2, Leguminosae – Rubiaceae*, pp. 1012 – 1028. South Australian Government Printing Division, Adelaide.