

## **Curriculum Vitae**

## **Kevin Chase Burns**

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### **Biographical Information**

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**Birth date:** June 2, 1970  
**Birth place:** Newport Beach, California  
**Family:** Married with three children  
**Citizenship:** United States citizen & New Zealand resident

### **Academic Qualifications**

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**2001** Ph.D. in Biology, University of California, Los Angeles  
**1993** B.A. in Geography, University of California, Berkeley

### **Academic Positions**

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**2007-** Senior lecturer, Victoria University of Wellington  
**2002-2006** Lecturer, Victoria University of Wellington

### **Contributions to Science**

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**2009-** Editorial Board Member, Journal of Biogeography  
**2009-** Editor-in-Chief, New Zealand Journal of Ecology  
**2007-8** Editorial Board Member, New Zealand Journal of Ecology  
**2007-** Panellist, Royal Society of New Zealand international Science and Technology Linkages Fund  
**2006-** Editorial Board Member, Ecography

### **Academic Honours**

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**2007** Victoria University Research Excellence Award  
**2004** Highly cited manuscript list, Global Ecology & Biogeography  
**1998** Fulbright Fellow, Canada

## **Scientific publications**

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### *In press*

Fadzly N, Jack C, Schaefer HM & Burns KC In press. Ontogenetic colour changes in an insular tree species: Signalling to extinct browsing birds? **New Phytologist**

- See also **Science** 325: 524 ([www.sciencenow.sciencemag.org](http://www.sciencenow.sciencemag.org))

Burns KC & Lake B In press. Allometry of fruits and frugivores in two southern hemisphere forests. **Oikos**

Burns KC & Zotz G In press. A hierarchical framework to investigate epiphyte assemblages: networks, metacommunities and scale. **Ecology**

Burns KC & Beaumont S In press. Scale-dependent trait correlations in a temperate tree community. **Austral Ecology**

Burns KC In press. Dietary diversity in fruit-eating birds: A biogeographic comparison between New Zealand and Canada. **New Zealand Journal of Ecology**

Low J, Burns KC & Hauber ME In press. Wild number sense in brood parasitic brown-headed cowbirds. **Ibis**

Burns KC & Dawson J In press. Heteroblasty on Chatham Island: A comparison with New Zealand and New Caledonia. **New Zealand Journal of Ecology**

### 2009

Burns KC, McHardy RP & Pledger S (2009) The small island effect: fact or artefact? **Ecography** 32: 269-276.

Coelho de Almeida D, Siva A & Burns KC (2009) Long-term changes in Otari Wilton's Bush: How important is possum control? **New Zealand Natural Sciences** 34: 9-18.

Burns KC, Cazetta E, Galetti M, Valido A. & Schaefer HM (2009) Geographic patterns in fruit colour diversity - do leaves add colour to fleshy fruits? **Oecologia** 159: 337-343.

Lester PJ, Abbott KL, Sarty M & Burns KC (2009) Competitive assembly of a South Pacific invasive ant community. **BMC Ecology** 9:3. – *featured article*

Burns KC (2009) Fine-scale food hoarding decision in New Zealand robins: Is inter-sexual competition important? **Journal of Ornithology** 150: 321-328.

Beaumont S & Burns KC (2009) Vertical gradients in leaf trait diversity in a New Zealand forest. **Trees** 23: 339-328.

Burns KC & Neufeld CJ (2009) Plant extinction dynamics in an insular metacommunity. **Oikos** 118: 191-198.

Blick R & Burns KC (2009) Network properties of arboreal plant metacommunities: Are epiphytes, mistletoes and lianas structured similarly? Perspectives in **Plant Ecology, Evolution & Systematics** 11: 41-52.

2008

Burns KC (2008) Meta-community structure of vascular epiphytes in a temperate rainforest.

**Botany** 86: 1252-1259. – cover article

Hunt S, Low J & Burns KC (2008) Adaptive numerical competency in a food hoarding songbird.

**Proceedings of the Royal Society of London, Series B** 275: 2373-2379.

Ting S, Hartley S & Burns KC (2008) Global patterns in fruiting seasons. **Global Ecology &**

**Biogeography** 17: 648-657.

Steer J & Burns KC (2008) Seasonal variation in sexual conflict cooperation and selfish hoarding in a monogamous songbird. **Behavioral Ecology & Sociobiology** 62: 1175-1183.

Burns KC (2008) When is it coevolution? A reply to Morgan-Richards et al. **New Zealand Journal of Ecology** 32: 113-114.

Blick R, Bartholomew R, Burrell T & Burns KC (2008) Successional dynamics after pest eradication in the Karori Wildlife Sanctuary. **New Zealand Natural Sciences** 33: 3-14.

2007

Burns KC (2007) Network properties of an epiphyte metacommunity. **Journal of Ecology** 95: 1142-1151. – **cover article**

Montoya I & Burns KC (2007) Community-wide character displacement in New Zealand skinks.

**Journal of Biogeography** 24: 2139-2147.

van Horik J & Burns KC (2007) Cache spacing patterns and reciprocal cache theft in New Zealand robins. **Animal Behaviour** 73: 1043-1049.

Burns KC & van Horik J (2007) Sexual differences in food re-caching by New Zealand robins.

**Journal of Avian Biology** 38: 394-398.

Van Horik J, Bell B & Burns KC (2007) Vocal ethology of New Zealand kaka *Nestor meridionalis*.

**New Zealand Journal of Zoology** 34: 337-345.

Burns KC (2007) Patterns in the assembly of an island plant community. **Journal of**

**Biogeography** 34: 760-768.

Burns KC (2007) Is tree diversity different in the southern hemisphere? **Journal of Vegetation**

**Science** 18: 307-312. – cover article

2006

Burns KC (2006) Weta and the evolution of fleshy fruits in New Zealand. **New Zealand Journal of Ecology** 30: 405-406.

Burns KC (2006) A simple null model predicts bird-fruit interactions in a temperate rainforest.

**Oikos** 115: 427-432.

Burns KC & Dawson JW (2006) A morphological comparison of leaf heteroblasty between New Caledonia and New Zealand. **New Zealand Journal of Botany** 44: 387-396.

Burns KC & Steer J (2006) Dominance rank influences food hoarding behaviour in New Zealand robins. **Ibis** 148: 266-272.

Duthie C, Gibbs G & Burns KC (2006) Seed dispersal by weta. **Science** 311: 1575.

2005

Burns KC (2005) Is there limiting similarity in the phenology of fleshy-fruits? **Journal of Vegetation Science** 16: 617-624. – **cover article**

Burns KC & Dawson J (2005) Patterns in the diversity and distribution of epiphytes and vines in a New Zealand forest. **Austral Ecology** 30: 891-899

Burns KC (2005) Abundance-age-area relationships in an insular plant community. **Folia Geobotanica** 40: 331-340

Burns KC (2005) Does mimicry occur in fleshy-fruits? **Evolutionary Ecology Research** 7: 1067-1076 – **cover article**

Burns KC (2005) Effects of bi-colored displays on avian fruit color preferences in a color polymorphic plant. **Journal of the Torrey Botanical Society** 132: 505-509

Alexander L, Duthie C, Fyfe J, Haws Z, Hunt S, Montoya I, Ochoa C, Siva A, Stringer L, van Horik J & Burns KC (2005) An experimental evaluation of food hoarding in North Island robins *Petroica australis*. **Notornis** 52: 138-142.

Burns KC (2005) A multi-scale test for dispersal filters in an island plant community. **Ecography** 28: 552-560.

Burns KC (2005) Plastic heteroblasty in beach groundsel *Senecio lautus*. **New Zealand Journal of Botany** 43: 665-672.

2004

Burns KC (2004) Relationships between the demography and distribution of two bird-dispersed plants in an island archipelago. **Journal of Biogeography** 31: 1935-1943.

Burns KC (2004) Scale and macroecological patterns in seed dispersal mutualisms. **Global Ecology & Biogeography** 13: 289-293. – **cover article**

Marchinko KB, Nishizaki MT & Burns KC (2004) Community-wide character displacement in barnacles: a new perspective for past observations. **Ecology Letters** 7: 114-120.

**Burns KC** (2004) Patterns in specific leaf area and the structure of a temperate heath community. **Diversity & Distributions** 10: 105-112.

2003 -

Burns KC (2003) Broad-scale reciprocity in an avian seed dispersal system. **Global Ecology & Biogeography** 12: 421-426

Burns KC & Dalen JL (2002) Foliage color contrasts and adaptive fruit color variation in a bird dispersed plant community. **Oikos** 96: 463-469.

Burns KC (2002) Seed dispersal facilitation and geographic consistency in bird-fruit abundance patterns. **Global Ecology & Biogeography** 11: 253-259.

*Book Chapters -*

Menzies IJ & Burns KC (2009) Food hoarding in the New Zealand robin: A review and synthesis.

In: Animal Behaviour Research Trends Nova Publishers.

Burns KC & Lester P (2009) Competition and co-existence in model populations. In:

Encyclopaedia of Ecology Jørgensen SE (ed) Elsevier.

Lester P & Burns KC (2009) Population regulation in arthropods. In: Encyclopaedia of Ecology

Jørgensen SE (ed) Elsevier.

**Peer Reviewer For**

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American Naturalist, Animal Behaviour, Annals of Botany, Austral Ecology, Basic and Applied Ecology, Behavioral Ecology, Biodiversity & Conservation, Biology Letters, Canadian Journal of Botany, Ecography, Ecology, Ecology Letters, Ecological Research, Functional Ecology, Global Ecology & Biogeography, Herpetological Journal, International Journal of Plant Sciences, Journal of Applied Ecology, Journal of Biogeography, Journal of Ecology, Journal of Tropical Ecology, National Science Foundation (USA), New Zealand Journal of Botany, Oecologia, Oikos, Philosophical Transactions of the Royal Society, Plant Ecology, Proceedings of the Royal Society of London, B

**Grants & Awards**

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<b>2008</b>	Marsden Fund (Royal Society of New Zealand) – 777 000 NZ\$
<b>2005</b>	New Zealand Forest & Bird Anniversary Grant – 2 000 NZ\$
<b>2004</b>	Victoria University Research Fund – 10 000 NZ\$
<b>2003</b>	Marsden Fund (Royal Society of New Zealand) – 420 000 NZ\$
<b>2003</b>	Department of Conservation Research Fund – 5 000 NZ\$
<b>2003</b>	Department of Conservation Research Fund – 6 125 NZ\$
<b>2000</b>	University of California Dissertation Fellowship – 17 404 US\$
<b>1999</b>	Bamfield Marine sciences Centre Scholarship – 2 000 CAN\$
<b>1999</b>	Obst Fund for Zoological Research – 1 500 US\$
<b>1998</b>	Fulbright Fellowship – 20 000 US\$
<b>1997</b>	Canadian Graduate Student Award – 4 500 US\$
<b>1997</b>	Vavra Fellowship – 15 675 US\$
<b>1996</b>	UCLA Biology Department Fellowship – 12 800 US\$
<b>1993</b>	Berkeley Undergraduate Forestry Award – 1 000 US\$

## **Current Teaching**

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<i>Ecology &amp; Environment</i>	An introduction to ecology and wildlife management issues resulting from human activities. The laboratory component of the course is comprised of a field trip that introduces techniques relevant to field-based enquiry in ecological and environmental science in Nelson Lakes National Park, which is located in the Southern Alps of New Zealand.
<i>Upper Division Ecology</i>	Lecture-based course teaching advanced principles in ecology.
<i>Post-graduate Ecology</i>	Graduate seminar covering advanced topics in ecology.
<i>Coastal Community Ecology</i>	A field-based course taught biannually at the Bamfield Marine Sciences Centre, Canada. The course covers ecological processes occurring at the interface of the land and sea and the management issues faced by this environment in British Columbia.