

**DR. SIMON J. BRANDL**

POSTDOCTORAL RESEARCHER

CENTRE FOR THE SYNTHESIS AND ANALYSIS OF BIODIVERSITY (CESAB)

PSL UNIVERSITÉ PARIS CNRS-EPHE-UPVD

UNIVERSITÉ DE PERPIGNAN, PERPIGNAN, FRANCE

CITIZENSHIP: German

DATE OF BIRTH: 02/23/1988

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**EDUCATION**

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**PhD in Marine Biology**

**February 2016**

ARC Centre of Excellence for Coral Reef Studies and College of Marine and Environmental Studies,  
James Cook University, Townsville, QLD, AUSTRALIA

Thesis title: Functional niche partitioning in herbivorous coral reef fishes

Advisor: Prof. David R. Bellwood

**Postgraduate Dip. Res. Meth. in Marine Biology**

**January 2012**

College of Marine and Environmental Studies, James Cook University, Townsville, QLD,  
AUSTRALIA

Thesis title: Ecological drivers of pair formation in the rabbitfish *Siganus doliatus*

Advisor: Prof. David R. Bellwood

**B.Sc. in Biology**

**October 2010**

University of Innsbruck, TI, AUSTRIA

Thesis title: The ecology of clingfishes (Gobiesocidae) in the Adriatic Sea

Advisor: Prof. Bernd Pelster

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**PUBLICATIONS**

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\* Student publication: 6 | † Perspective: 3 | 1<sup>st</sup> authored: 16 | Citations: 770 | h-index: 17

**JOURNAL ARTICLES**

- 38) **Brandl, S.J.**, Morais, R.A., Casey, J.M., Parravicini, V., Tornabene, L., Goatley, C.H.R., Côté, I.M., Baldwin, C.C., Schiettekatte, N.M.D., Bellwood, D.R. 2019. Response to Comment on Demographic dynamics of the smallest marine vertebrates fuel coral reef ecosystem functioning. *Science* 366, eaaz1301.

- 37) †**Brandl, S.J.** 2019. Coral reefs: big data guides pragmatic management. *Nature Ecology & Evolution* 3, 1283–1284.
- 36) **Brandl, S.J.**, Tornabene, L.M., Goatley, C.H.R., Casey, J.M., Morais, R.A., Baldwin, C.C., Côté, I.M., Parravicini, V., Schiettekatte, N.M.D., Bellwood, D.R. 2019. Demographic dynamics of the smallest marine vertebrates fuel coral reef ecosystem functioning. *Science* 364, 1189–1192.
- 35) **Brandl, S.J.**, Rasher, D.B., Côté, I.M., Casey, J.M., Darling, E.S., Lefcheck, J.S., Duffy, J.E. 2019. Functioning coral reefs for the future: eight core processes and the influence of biodiversity. *Frontiers in Ecology and the Environment* 17, 445–454.
- 34) \* Phenix, L., Tricarico, D., Quintero, E., Bond, M.E., **Brandl, S.J.**, Gallagher A.J. 2019. Evaluating the effects of large marine predators on mobile prey behavior across subtropical reef ecosystems. *Ecology & Evolution* ece3.5784
- 33) Casey, J.M., Meyer, C.P., **Brandl, S.J.**, Morat, F., Planes, S., Parravicini, V. 2019. Reconstructing hyperdiverse food webs: gut content metabarcoding as a tool to disentangle trophic interactions on coral reefs. *Methods in Ecology and Evolution* 10, 1157–1172.
- 32) \* Topor, Z.M., Rasher, D.B., Duffy, J.E., **Brandl, S.J.** 2019. Marine protected areas enhance coral reef functioning by promoting fish biodiversity. *Conservation Letters* 12, e12638.  
• **University of Louisiana Lafayette Best Graduate Student Paper Award**
- 31) Lefcheck, J.S., **Brandl, S.J.**, et al. 2019. Response to Commentary on: Local and regional biodiversity both enhance herbivory on Caribbean coral reefs. *Frontiers in Ecology & Evolution* 7, 303.
- 30) Lefcheck, J.S., Innes-Gold, A.A, **Brandl, S.J.**, et al. 2019. Local and regional biodiversity both enhance herbivory on Caribbean coral reefs. *Science Advances* 5, 6420.
- 29) Bellwood, D.R., Streit, R., **Brandl, S.J.**, Tebbett, S.B. 2019. The meaning of the term ‘function’ in ecology: a coral reef perspective. *Functional Ecology*, 33, 948–961.
- 28) **Brandl, S.J.**, Goatley, C.H.R., Bellwood, D.R., Tornabene, L. 2018. The hidden half: ecology and evolution of cryptobenthic fishes on coral reefs. *Biological Reviews* 93, 1846–1873.
- 27) Staaterman E., **Brandl, S.J.**, Hauer, M., Casey, J.M., Gallagher, A.J., Rice, A. 2018. Individual voices in a cluttered soundscape: acoustic ecology of the Bocon Toadfish, *Amphichthys cryptocentrus*. *Environmental Biology of Fishes* 101, 979–995.

- 26) Taylor, B.M., **Brandl, S.J.**, et al. 2018. Bottom-up processes mediated by social systems drive demographic traits of coral-reef fishes. *Ecology* 99, 642–651.
- 25) **Brandl, S.J.**, Casey, J.M., Knowlton, N., Duffy, J.E. 2017. Marine dock pilings foster diverse, native cryptobenthic fish assemblages across bioregions. *Ecology & Evolution* 7, 7069–7079.
- 24) †Goatley, C.H.R., **Brandl, S.J.** 2017. Cryptobenthic reef fishes. *Current Biology* 27, R452–R454.
- 23) Staaterman E., Ogburn, M., Altieri A., **Brandl, S.J.** et al. 2017. Bioacoustic measurements complement visual biodiversity surveys: preliminary evidence from four shallow marine habitats. *Marine Ecology Progress Series* 575, 207–215.
- 22) \* Rodemann, J., **Brandl, S.J.** 2017. Consumption pressure in coastal marine environments decreases with latitude and in artificial vs. natural habitats. *Marine Ecology Progress Series* 574, 167–179.
- 21) \* Khan, J.A., Goatley, C.H.R., **Brandl, S.J.**, Tebbett, S.B., Bellwood, D.R. 2017. Shelter use by large reef fishes: long-term occupancy and the impacts of disturbance. *Coral Reefs* 36, 1123–1132.
- 20) Casey, J.M., Baird, A.S., **Brandl, S.J.**, et al. 2017. A test of trophic cascade theory: fish and benthic assemblages across a predator density gradient on coral reefs. *Oecologia* 183, 161–175.  
• **Virginia Chadwick Award for best student paper by the ARC Centre of Excellence for Coral Reef Studies in 2016**
- 19) Gallagher, A.J., **Brandl, S.J.**, Stier, A.C. 2016. Intraspecific variation in body size does not alter the effects of mesopredators on prey. *Royal Society Open Science* 3:160414.
- 18) **Brandl, S.J.**, Emslie, M.J., Ceccarelli, D.M. 2016. Habitat degradation increases functional originality in a high-diversity ecosystem. *Ecosphere* 7, e01557.
- 17) **Brandl, S.J.**, Bellwood, D.R. 2016. Microtopographic refuges shape consumer-producer dynamics by mediating consumer functional diversity. *Oecologia* 183, 203–217.  
• **recommended in F1000**
- 16) \* Mirbach, C.E., **Brandl, S.J.** 2016. Ontogenetic shifts in the social behaviour of pairing coral reef rabbitfishes (f. Siganidae). *Marine Biological Research* 12, 874–880.
- 15) †Lefcheck, J.S., **Brandl, S.J.**, et al. 2016. Extending rapid ecosystem function assessments to marine ecosystems: A Reply to Meyer. *Trends in Ecology & Evolution* 31, 251–253.

- 14) Brooker, R.M., **Brandl, S.J.**, Dixon, D.L. 2015. Cryptic effects of habitat declines: coral-associated fishes avoid coral-seaweed interactions due to visual and chemical cues. *Scientific Reports* 6, 18842.
- 13) **Brandl, S.J.**, Bellwood, D.R. 2015. Coordinated vigilance provides evidence for direct reciprocal cooperation in coral reef fishes. *Scientific Reports* 5, 14556.
- 12) **Brandl, S.J.**, Robbins, W.D., Bellwood, D.R. 2015. Exploring the nature of ecological specialization in a coral reef fish community: morphology, diet and foraging microhabitat use. *Proceedings of the Royal Society London B* 20151147.
  - **Virginia Chadwick Award for best student paper by the ARC Centre of Excellence for Coral Reef Studies in 2015**
- 11) \* Heinrich, D., Watson, S.-A., Rummer, J.L., **Brandl, S.J.**, et al. 2015. Foraging behavior of the epaulette shark *Hemiscyllium ocellatum* is not affected by elevated CO<sub>2</sub>. *ICES Journal of Marine Science* 73, 633–640.
- 10) **Brandl, S.J.** & Bellwood, D.R. 2014. Individual-based analyses reveal limited functional overlap in a coral reef fish community. *Journal of Animal Ecology* 83, 661–670.
  - **recommended in F1000**
  - **Virginia Chadwick Award for best student paper by the ARC Centre of Excellence for Coral Reef Studies in 2014**
- 9) **Brandl, S. J.**, Hoey, A.S., Bellwood, D.R. 2014 Micro-topography mediates interactions between corals, algae, and herbivorous fishes. *Coral Reefs* 33, 421–430.
- 8) **Brandl, S.J.**, Bellwood, D.R. 2014. Pair formation in coral reef fishes: an ecological perspective. In Hughes, R.N., Hughes, D.J., Smith, I.P. (Eds.) *Oceanography and Marine Biology: An Annual Review* 52, pp. 1–80. Taylor & Francis, United Kingdom.
- 7) Bellwood, D.R., Goatley, C.H.R., **Brandl, S.J.** & Bellwood, D.R. 2014. Fifty million years of herbivory: fossils, fishes and functional innovations. *Proceedings of the Royal Society B* 281, 20133046.
- 6) Brooker, R.M., Munday, P.L., **Brandl, S.J.**, Jones, G. P. 2014. Local extinction of a coral reef fish explained by inflexible prey choice. *Coral Reefs* 33, 891–896.
- 5) Rocker, M.M. & **Brandl, S.J.** 2015. Transplantation of corals into a new environment results in substantial skeletal loss in *Acropora tenuis*. *Marine Biodiversity* 45, 321–326.

- 4) **Brandl, S.J.**, Bellwood, D.R. 2013. Morphology, sociality, and ecology: can morphology predict pairing behavior in coral reef fishes? *Coral Reefs* 32, 835–846.
- 3) Hoey, A.S., **Brandl, S.J.**, Bellwood, D.R. 2013. Diet and cross-shelf distribution of rabbitfishes (f. Siganidae) on the northern Great Barrier Reef: implications for ecosystem function. *Coral Reefs* 32, 973–982.
- 2) **Brandl, S.J.**, Bellwood, D.R. 2013. Pair formation in the herbivorous rabbitfish *Siganus doliatus*. *Journal of Fish Biology* 82, 2031–2044.
- 1) **Brandl, S.J.**, Wagner, M., Hofrichter R., Patzner, R. 2011. First record of the clingfish *Apletodon dentatus* (Gobiesocidae) in the Adriatic Sea and a description of a simple method to collect clingfishes. *Bulletin of Fish Biology* 13, 65–69.

#### **JOURNAL ARTICLES IN REVIEW:**

- 4) **Brandl, S.J.**, Norin, T., Bates, A.E., Lefcheck, J.S. Metabolic traits link niche and fitness differences to predict assembly and functioning of animal communities.
- 3) **Brandl, S.J.**, Casey, J.M., Meyer, C.P. Dietary and habitat niche partitioning in congeneric cryptobenthic reef fish species.
- 2) Morais, R.A., Depczynski, M., Fulton, C.J., Marnane, M., Narvaez, P., Huertas, V., **Brandl, S.J.**, Bellwood, D.R. Severe coral loss shifts energetic dynamics on a coral reef.
- 1) \* Schittekatte, N.M.D., Barneche D., Villéger, S., Allgeier, J.E., Burkepile, D.E., **Brandl, S.J.**, et al. Nutrient limitation, bioenergetics, and stoichiometry predict elemental fluxes mediated by fishes.

#### **R PACKAGES:**

- 1) Schittekatte, N.M.D., **Brandl, S.J.**, Casey, J.M. (2019) fishualize: color palettes based on fish species. CRAN version 0.1.0 (<https://cran.r-project.org/web/packages/fishualize>)

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#### **GRANTS, AWARDS, HONOURS**

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#### **RESEARCH FUNDING: \$846,816 US**

- **\$33,000 AU (\$23,760 US)** John and Laurine Proud Foundation Lizard Island Postdoctoral Fellowship – December 2019 (Co-PI: Dr. Christopher Goatley)

- **£14,845 (\$19,781 US)** British Ecological Society – December 2019
- **€4,500 (\$5,000 US)** Institute for Pacific Coral Reefs – September 2019
- **€20,000 (\$22,034 US)** LabEx Corail – September 2019 (PIs: Dr. Valeriano Parravicini, Dr. Simon Brandl, Dr. Stefano Mona)
- **€300,000 (\$349,057 US)** Agence Nationale de la Recherche (ANR), France – July 2017 (PIs: Dr. Valeriano Parravicini, University of Perpignan, and Dr. Simon Brandl)
- **\$140,000 CA (\$105,336 US)** NSERC Banting Postdoctoral Research Fellowship – November 2017
- **\$120,000 US** Tennenbaum Marine Observatories Network, MarineGEO Postdoctoral Research Fellowship, Smithsonian Institution – October 2015
- **\$2,500 AU** James Cook University, Graduate Research Scheme – May 2014
- **\$500 AU** Australian Coral Reef Society, Travel Grant – August 2013
- **\$2,000 AU** James Cook University, Graduate Research Scheme – May 2013
- **\$161,184 AU** James Cook University, International Postgraduate Fellowship – February 2012
- **€1,000** University of Innsbruck, International Research Funding – June 2010

#### **AWARDS & HONOURS**

- Virginia Chadwick Award for outstanding student publications, Australian Research Council – April 2016 (**\$1,000 AU**)
- Virginia Chadwick Award for outstanding student publications, Australian Research Council – April 2015 (**\$1,500 AU**)
- Ecological Society of America, ESA Science Café Winner – August 2014
- Range Extension Database Mapping Project, Video Competition Winner – June 2014 (**\$2,000 AU**)
- Great Barrier Reef Foundation, Bommies Award – February 2014 (**\$2,000 AU**)
- Visiting Scientist, University of Montpellier – May 2013 and July 2014
- Australian Coral Reef Society, best student presentation – August 2014
- Australian Coral Reef Society, travel award – August 2014 (**\$250 AU**)
- James Cook University, best postgraduate student presentation – June 2013 (**\$500 AU**)

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#### **SUPERVISION AND MENTORING**

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\* Primary supervisor | † Underrepresented demographic group

- 12) \*† Nina Prasil Delaval, Master's student, University of Perpignan (2020)
  - Predator-prey interactions across a coral reef complexity gradient
- 11) \*† Gabrielle Martineau, Undergraduate Intern, Laval University (2019)

- Behavioral responses of butterflyfishes (f. Chaetodontidae) to coral bleaching
- 10) † Kimberly Shaw, Master's student, University of Bremen (2019)
    - Niche partitioning in coral reef blennies (f. Blenniidae)
  - 9) † Samuel Degregori, PhD Student, University of California Los Angeles (2018)
    - Drivers of reef fish gut microbiomes
  - 8) † Jason Vii, PhD Student, Université de Perpignan (2019)
    - Trophic structure of coral reef fish communities (co-advisor)
  - 7) † Nina Schiettekatte, PhD student, Université de Perpignan (2018)
    - Nutrient dynamics on coral reefs (co-advisor)
  - 6) \* Calvin Quigley, Undergraduate intern, Brigham Young University (2018)
    - Project title: Niche partitioning in coral reef gobies across several ecological axes in Moorea, French Polynesia
  - 5) † Lindsay Phenix, Master's student, Northeastern University (2018)
    - Project title: Effects of predator density on prey behavior across coastal marine habitats (co-advisor)
  - 4) \* Zachary Topor, Graduate intern, University of Maine (2017)
    - Project title: Effects of herbivore biodiversity on coral reef ecosystem functioning.
    - Currently: PhD student at University of Louisiana, Lafayette
  - 3) \* Jonathan Rodemann, Master's student, Northeastern University (2016)
    - Project title: Comparing consumption pressure between artificial and natural marine habitats across a latitudinal gradient.
    - Currently: PhD student at Florida International University, Florida
  - 2) \* Christopher Mirbach, Master's student, James Cook University (2015)
    - Project title: Ontogenetic shifts in the social behaviour of pairing coral reef rabbitfishes (f. Siganidae).
    - Currently: Marine biologist for True North Cruises Australia
  - 1) \* Maximilian Wagner, High-school student (2010)
    - Project title: The ecology of clingfishes (f. Gobiesocidae) in the Adriatic Sea.
    - Currently: PhD student at the University of Graz, Austria, working on clingfish taxonomy

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## TEACHING EXPERIENCE

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### **Co-instructor** (March 2017)

*Belize Rainforests and Coral Reefs*, Sewanee: University of the South

Lecturers: Prof. Jon Evans and Dr. Jordan Casey

Responsibilities: Course design, lecturing, supervision of field activities

### **Teaching Assistant** (February 2012 – 2015)

*MB 3160: Evolution and Ecology of Coral Reef Fishes*, James Cook University

Lecturer: Prof. David Bellwood

Responsibilities: Lecturing, supervision of practical courses, field trip support and marking of student assignments.

### **Teaching Assistant** (February 2012 – 2015)

*MB2070: Biogeography of Marine Organisms*, James Cook University

Lecturers: Prof. David Bellwood, Dr. Orpha Bellwood

Responsibilities: Lecturing, supervision of practical courses, and marking of student assignments.

### **Teaching Assistant** (February 2012 – 2015)

*BZ1001: Introduction to Biological Processes*, James Cook University

Lecturers: Dr. Angela Capper

Responsibilities: Lecturing, supervision of practical courses, and marking of student assignments.

### **Science Ambassador** (September 2012 – 2015)

*HEPP Program for Science Enrichment*, CSIRO Education, Townsville, QLD, Australia

Supervisors: Ms Heidi Streiner, Ms Elise Barrows

Responsibilities: Presentation of scientific content to rural high schools, supervision of practical courses and assignments, development of new programs to promote scientific education

### **Teaching awards:**

- Australian Academy for Technology, Science and Engineering, Young Science Ambassador Award – May 2013 (**\$1,250** AUD)
- Aboriginal and Torres Strait Islanders in Marine Science, Ambassador Award – September 2013 (**\$250** AUD)

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## PROFESSIONAL HISTORY

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**Banting Postdoctoral Research Fellow** (October 2017 – October 2019)

Supervisor: Dr. Isabelle M. Côté

Location: Department of Biological Sciences, Simon Fraser University, Burnaby, BC, Canada

**Smithsonian MarineGEO Postdoctoral Research Fellow** (October 2015 – October 2017)

Supervisors: Dr. J. Emmett Duffy, Dr. Nancy Knowlton, Dr. Valerie J. Paul, Dr. D. Ross Robertson

Location: Smithsonian Environmental Research Center, Edgewater, MD, USA

**Doctor of Philosophy in Marine Biology** (2012 – 2015)

ARC Centre of Excellence for Coral Reef Studies, James Cook University

Supervisor: Prof David Bellwood

Responsibilities: Design, execution, and analysis of field and laboratory studies to examine functional niche partitioning in herbivorous coral reef fishes using observational, experimental, and manipulative frameworks on the Great Barrier Reef.

**Graduate Teaching Assistant** (February 2012 – present)

*MB 3160: Evolution and Ecology of Coral Reef Fishes & MB2070: Biogeography of Marine Organisms*, James Cook University, Townsville, QLD, Australia

Supervisors: Prof. David Bellwood and Dr. Orpha Bellwood

Responsibilities: Lecturing, supervision of practical courses, field trip support and marking of student assignments.

**Research assistant** (July 2014)

Reef Fish Ecology and Evolution Lab, James Cook University, QLD, Australia

Supervisor: Prof David Bellwood

Responsibilities: Field support through fish counts and benthic assessments of coastal systems in various locations in Malta and Croatia; support with data management and logistics

**Science education ambassador** (September 2012 – present)

*HEPP Program for Science Enrichment*, CSIRO Education, Townsville, QLD, Australia

Supervisor: Ms Heidi Streiner

Responsibilities: Outreach to rural primary and highschools throughout the State to promote scientific education; design and creation of programs to promote scientific education

**Research worker** (September 2010 – January 2011)

*Immune Biological Laboratory Immumed GmbH*, Munich, Germany

Supervisor: Dr. Wolfgang Meyer

Responsibilities: Performance of various diagnostic tests using PCR, ELISA and flow cytometry

**Field station director** (May 2010 – September 2010)

*Mare Vivum Field Station*, Glavotok, Croatia

**Supervisors:** Branko Gaspar and Marijana Jadro

**Responsibilities:** Management of the marine field station, guided tours, and lectures on various marine biological topics

**Research volunteer** (June 2009 – September 2009)

*Red Sea Environmental Centre*, Dahab, Egypt

**Supervisor:** Christian Alter, MPhil

**Responsibilities:** Performance of fish, benthic, and invertebrate surveys, data entry and management, market surveys

**Editorial intern** (June 2008 – September 2008)

*Badische Zeitung*, Weil am Rhein, Germany

**Supervisor:** Hannes Lauber

**Responsibilities:** Conception and creation of news articles and stories, interviews, proof reading and type setting

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## WORKSHOPS, CONFERENCES, AND INVITED PRESENTATIONS (6 countries)

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- 27) **Brandl, S.J.** December 2019. Coral reef ecosystem functioning: highlighting the roles of the smallest marine vertebrates. British Ecological Society Annual Meeting, Belfast, UK.
- 26) **Brandl, S.J.** October 2019. Fishes, functions, and the future of coral reefs. Halmos College of Natural Sciences and Oceanography, Nova Southeastern University, FL, USA. **Invited presentation.**
- 25) **Brandl, S.J.** May 2019. Fishes, functions, and the future of coral reefs. Department of Ecology and Evolutionary Biology, University of California Los Angeles, CA, USA. **Student invited departmental seminar speaker.**
- 24) **Brandl, S.J.** February 2019. Fishes, functions, and the future of coral reefs. Texas A&M University Corpus Christi, TX, USA. **Invited presentation.**
- 23) **Brandl, S.J.** January 2019. Data visualization and scientific illustration using R and Adobe Illustrator. Department of Biological Sciences, Simon Fraser University, Burnaby, BC, CANADA.
- 22) **Brandl, S.J.** December 2018. Biodiversity and ecosystem functioning on coral reefs. University of Cambridge, Cambridge, UK. **Invited presentation.**
- 21) **Brandl, S.J.** March 2018. Exploring Cryptoland: of fishes, functions, and fairytales. CRIOBE Seminar Series, CRIOBE, Mo'orea, FRENCH POLYNESIA.
- 20) **Brandl, S.J.** October 2017. Coral reef ecology: of fishes, functions, and fairytales. Les Ecologistes Seminar Series, Simon Fraser University, Burnaby, BC, CANADA.
- 19) **Brandl, S.J.** October 2017. Exploring Cryptoland: fishes, functions, and fairytales. Indo-Pacific Fish Conference, Tahiti, FRENCH POLYNESIA.

- 18) **Brandl, S.J.** September 2017. Exploring Cryptoland: fishes, functions, and fairytales. Smithsonian Environmental Research Center, Edgewater, MD, USA.
- 17) **Brandl, S.J.** July 2016. Project Cryptodiversity: examining the effects of biodiversity on ecosystem functioning using small, cryptic fishes. Wood's Hole Marine Biological Laboratory, Wood's Hole, MA, USA. **Invited presentation.**
- 16) **Brandl, S.J.** June 2016. Herbivorous grazing in a new dimension: the importance of micro-topographic complexity for consumer-producer dynamics. International Coral Reef Symposium, Honolulu, HI, USA.
- 15) **Brandl, S.J.** December 2015. Functional niche partitioning in herbivorous fishes. Technical University Munich, Munich, GERMANY. **Invited presentation.**
- 14) **Brandl, S.J.** November 2015. Functional niche partitioning in herbivorous fishes. Smithsonian Marine Station, Fort Pierce, FL, USA. **Invited presentation.**
- 13) **Brandl, S.J.** May 2015. Drivers and consequences of functional diversity of herbivorous fishes on coral reefs. Ecological Society of America Centennial Meeting, Baltimore, MD, USA.
- 12) **Brandl, S.J.** May 2015. Functional niche partitioning in herbivorous coral reef fishes. James Cook University, Townsville, QLD, Australia. **Thesis defense.**
- 11) **Brandl, S.J.,** Bellwood, D.R. November 2014. Friends with benefits: micro-habitat niche partitioning in a herbivorous reef fish community. Scripps Institute of Oceanography, La Jolla, CA, USA. **Invited presentation.**
- 10) **Brandl, S.J.,** Bellwood, D.R. November 2014. Friends with benefits: micro-habitat niche partitioning in a herbivorous reef fish community. The University of the South, Seawee, TN, USA. **Invited presentation.**
- 9) **Brandl, S.J.,** Bellwood, D.R., November 2014. Friends with benefits: micro-habitat niche partitioning in a herbivorous reef fish community. Western Society of Naturalists Annual Meeting, Seattle, WA, USA.
- 8) **Brandl, S.J.,** MacLeod, I.M., September 2014. A novel visual modality to communicate scientific findings. Reperio Innovation Challenge, Townsville, QLD, AUSTRALIA. **Finalist presentation.**
- 7) **Brandl, S.J.,** Robbins, W.D., Bellwood, D.R. 2014. Patterns of ecological specialization in coral reef surgeonfishes. Ecological Society of America Annual Meeting, Sacramento, CA, USA.
- 6) **Brandl, S.J.** 2014. Butcher, baker, brewer-fish: the functional roles of coral reef fishes. Ecological Society of America Science Café, Davis, CA, USA. **Invited presentation.**
- 5) **Brandl, S.J.,** Bellwood, D.R., August 2013. Novel analyses of niche overlap reveal limited redundancy in a herbivorous reef fish community. Australian Coral Reef Society Annual Symposium. Sydney, NSW, AUSTRALIA. **Awarded best student presentation.**
- 4) **Brandl, S.J.,** July 2013. Herbivorous reef fishes: fundamental and realized functional niches. University of Montpellier, Montpellier, FRANCE. **Invited presentation.**
- 3) **Brandl, S.J.,** Bellwood, D.R. June 2013. Feeding in pairs: an ecological perspective. Indo-Pacific Fish Conference, Okinawa, JAPAN.

- 2) **Brandl, S.J.** June 2013. Morphology, sociality, and ecology: can morphology predict pairing behavior in coral reef fishes? Postgraduate Student Conference, Townsville, QLD, AUSTRALIA. **Awarded best student presentation.**
- 1) **Brandl, S.J.** June 2012. Pair formation in the herbivorous rabbitfish *Siganus doliatus*. International Coral Reef Symposium, Cairns, QLD, AUSTRALIA.

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#### SELECT PRESS AND PUBLIC OUTREACH:

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Brandl et al. (2019), *Science* (Altmetric score: 567):

- [National Geographic](#)
- [Los Angeles Times](#)
- [The Atlantic](#)
- [Scientific American](#)
- [AAAS](#)
- [The Conversation](#)

Brandl et al. (2019), *Frontiers in Ecology and the Environment* (Altmetric score: 45)

- [SECORE International](#)

Taylor, Brandl et al. (2018), *Ecology* (Altmetric score: 72):

- [NOAA Fisheries](#)

Brandl & Bellwood (2015), *Scientific Reports* (Altmetric score: 165):

- [Canadian Broadcasting Corporation](#)
- [New York Times](#)
- [Sueddeutsche Zeitung](#)
- [Daily Mail](#)

Brandl & Bellwood (2014), *Journal of Animal Ecology* (Altmetric score: 53):

- [The Conversation](#)

Other outreach activities:

- [Capital Science Communication Sacramento](#)
  - [Ecological Society of America](#)
  - [Redmap Video Competition](#)
  - [Great Barrier Reef Foundation: Bommies Award 2013](#)
  - [ESA Communications & Engagement](#)
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## VOLUNTARY COMMITMENTS & PROFESSIONAL SERVICES:

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**Associate academic editor:** *Ecology & Evolution*, John Wiley & Sons Ltd

**Session Chair, Indo-Pacific Fish Conference 2017, Tahiti:** Cryptobenthic fishes: ecology and evolution of the smallest marine vertebrates

**Grant reviewer (7 reviews):** National Science Foundation (USA), German Science Foundation (DFG), British Ecological Society (BES)

**Journal reviewer (69 reviews):** Nature, Ecology Letters, Nature Ecology & Evolution, Communications Biology, Science Advances, Evolution, Proceedings of the Royal Society B, Ecology, Global Change Biology, Ecography, Ecological Applications, Global Ecology and Biogeography, Methods in Ecology & Evolution, Scientific Reports, Oecologia, Animal Behaviour, Biological Invasions, Journal of Animal Ecology, Functional Ecology, Conservation Biology, Marine Ecology Progress Series, Coral Reefs, Ecosphere, PLoS ONE, Marine Biology, Ichthyological Research, Journal of Experimental Marine Biology and Ecology, Journal of the Marine Biological Association of the United Kingdom

**PhD thesis reviewer:** University of Queensland

### Current and previous commitments and services:

- Postgraduate Student Representative, JCU College of Martine and Environmental Studies
- Student Committee Member, ARC Centre of Excellence for Coral Reef Studies
- Postgraduate Conference Committee, JCU College of Martine and Environmental Studies
- Ecological Society of America
- International Society for Reef Studies
- British Ecological Society

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## WEBSITES

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Personal website: [www.simonjbrandl.com](http://www.simonjbrandl.com)

Google Scholar: <https://scholar.google.com/citations?user=nTZjpZcAAAAJ&hl=en>

Publons: <https://publons.com/author/528202/simon-brandl#profile>

ResearchGate: [https://www.researchgate.net/profile/Simon\\_Brandl](https://www.researchgate.net/profile/Simon_Brandl)