We are seeking undergraduate, MSc or MSc(Research) students:

- **SCIEN303** - 19A/B Undergraduate Research Project, 15 pts
- **SCIEN589** - 19A/B Directed Study, 15 pts
- **SCIEN592** - 19C Master of Science Dissertation, 60 pts
- **SCIEN594** - 19C Master of Science (Research) Thesis, 120 pts

These projects are similar in that they focus on morphological analyses of herbarium specimens of endemic New Zealand plants and contribute to ongoing work in plant systematics. Morphological data will be collected from the literature and herbarium specimens, then analysed using multivariate methods.

You will be working with:

- Chrissen Gemmill, Senior Lecturer, PostGrad Convenor (Ecology/Biodiversity)
- Toni Cornes, Terrestrial Team Leader, Facility Manager (Waikato Herbarium)
- Stacey Meyer, Lab Manager (Pacific Biosystematics Research Laboratory)

**PROJECT 1**: to understand if the *Pittosporum kirkii* population found on Great Barrier Island is distinct from all other *P. kirkii* populations. If so, a new subspecies or species might be warranted. This is probably best as a **SCIEN303** or **SCIEN589**.

**PROJECT 2**: using a multivariate approach to test the current taxonomic classification of NZ *Pomaderris*. This project also has aspects relating to mātauranga Māori and molecular phylogenetics. This project could work as a **SCIEN303**, **SCIEN589**, **SCIEN592**, or **SCIEN594**.

**PROJECT 3**: ongoing study of the invasive diatom *Didymosphenia geminata*. Prepare specimens for SEM and collect morphological data to identify these samples to species. This project could work as a **SCIEN303** or **SCIEN589**.

**PROJECT 4**: to better understand the phylogeny and biogeography of *Pittosporum* throughout the Pacific, using morphological analysis and molecular techniques. This project could work as a **SCIEN303**, **SCIEN589**, **SCIEN592**, or **SCIEN594**.

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