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| Doctoral Supervisory Agreement Form  (6 months post-enrolment) |

Date Last Modified: November 2014

This form is to be completed within 6 months after enrolment as a provisional doctoral candidate.

**Please complete the form and return to the Postgraduate Office by email attachment (**[**postgraduate-office@canterbury.ac.nz**](mailto:postgraduate-office@canterbury.ac.nz)**) as a word document**

**PART A**: **STUDENT DETAILS**

Full Name: Fernando Cagua

UC ID Number:*97251138*

Date of enrolment (dd/mm/yy): *01/02/2015*

Department/School: *Department of Biological Sciences*

Course code (e.g., HIST790): *BIOL790-15A (C)*

Name of any scholarships held:*UC International Doctoral Research Scholarship*

Enrolment status:  Full-time  Part-time

Thesis working title: *Building Resilience: How do Species Interactions Shape Ecosystem Collapse?*

**PART B**: **RESEARCH PROPOSAL**

Please provide a brief summary of the intended project and progress to date. Please note that each department/school has different requirements for the structure of the research proposal and dates for its submission. Please ensure that you adhere to these departmental requirements. The full research proposal does *not* need to be submitted to the Postgraduate Office.

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| (full proposal is attached as a separate document)  Natural ecosystems provide important services---like food and water---we humans depend on to a large extent. Much like the failure of a single key financial institution can trigger unexpected crashes on the stock market, human pressures---such as biological invasions and species extinctions---can cause sudden collapses that severely transform the way ecosystems function. However, despite its importance, we do not completely understand the dynamics that make ecosystems resilient to collapse. Because the functioning of ecosystems is largely determined by the network of interactions between the species that inhabit them, my proposed research aims to quantify the role played by species interactions in determining the resilience of ecosystems. To achieve this, I will focus on networks of mutually beneficial interactions, like those between plants and their pollinators, and use a combination of empirical data, computer simulations and ecological theory. Ultimately I want to understand why, when and how ecosystem collapses occur, and how to recover from them. |

**PART C**: **SUPERVISORY TEAM**

*The regulations require the appointment of at least one supervisor other than the Senior Supervisor, or a Supervisory Committee. Only the Senior Supervisor need be a member of the UC continuing academic staff.*

*Academic staff members appointed to UC after December 2003 must complete the New Thesis Supervisors Course prior to being appointed as a Senior Supervisor for a doctoral candidate. For details see* [*https://intranet.canterbury.ac.nz/ld/dev\_plan/thesis\_supervision/index.shtml*](https://intranet.canterbury.ac.nz/ld/dev_plan/thesis_supervision/index.shtml)

Please list below the proposed members of the candidate’s supervisory team and summarize the intended contribution of each supervisor – for example contribution to research design, methods, analysis, feedback on drafts. This should include details regarding the expertise of the supervisor, involvement in supervisory meetings and provision of feedback to the student.

It is acknowledged that, in many cases, a student’s interaction will be more frequent with the senior supervisor than with other supervisors. However, regular meetings (at least every 3 months) involving all members of the supervisory team are strongly encouraged.

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|  | **Name** | **Supervisory Contributions** |
| Senior Supervisor | Daniel Stouffer | Fortnightly meetings, oversees all research, makes substantial contributions to all thesis projects in terms of content, motivation and methodology (therefore co-authorship in all publications arising from the PhD is expected), provides computational resources, provides partial funding for relevant outreach (conferences, workshops, research stays), helps on planning the work and setting deadlines, advises on potential contacts, collaborations, and educational and career planing. |
| Co-Supervisor | Jason Tylianakis | Monthly meetings, limited feedback on all thesis components (including manuscripts and presentations) but substantial intellectual contributions on topics related with conservation and management science and environmental global change, advises on potential contacts, collaborations and educational and career planing. |

**If a supervisor is external to UC, include e-mail details, institution affiliation and phone number.**

If members of the supervisory team are in different Departments/Schools, please indicate, in percentages, the agreed EFTS per Department/School. EFTS splits need to be approved by the HOD/S or nominee of each of the Departments/Schools involved.

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| Name and % EFTS | Department | HOD Signature |
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**PART D**: **SUPERVISORY AGREEMENT**

*The student and supervisors should discuss the items below and fill in the agreed details. It is expected that the student and supervisors will review this agreement as part of the 6-monthly progress-reporting procedures.* ***Please note that Departments/Schools may have additional documentation that needs to be completed by students and supervisors regarding intellectual property, data management and authorship. Please ensure that any such documents are also completed.***

1. Formal supervision meetings will occur at intervals of ***one***months.

*A normal expectation is that these meetings occur at intervals of between one and three months. They should not be confused with other less formal and more frequent meetings. It is recommended that written summaries of all meetings be kept by student and supervisors.*

1. The student and supervisors will establish an agreed timeline and schedule for work to be completed and submitted to the supervisory team for comment.
2. Feedback will be provided on submitted work by Daniel Stouffer and Jason Tylianakis. This feedback will be provided within threeweeks of the work being submitted.

*If not all members of the supervisory team are going to provide feedback on all pieces of work, please ensure that it is clear who is to provide feedback on what aspects.*

*If a student is unable to meet the deadline for submitting a piece of work, s/he should inform the supervisors as soon as possible and a revised timeline for submission be determined. If a supervisor is unable to give feedback within the expected time period then s/he should inform the student as soon as possible and advise as to when the feedback will be provided.*

1. The candidate and senior supervisor should reach agreement about authorship of any published results of the research work. Matters to be considered include whether supervisors are to be co-authors, and under what circumstances (such as failure of the candidate to prepare work for publication in an agreed timeframe) the supervisors may publish any of the work, with the candidate as co-author. It is acknowledged that norms regarding co-publication differ across disciplines and, accordingly, the agreement required may vary between disciplines.

*This agreement should be documented.*

*Students and supervisors are advised to familiarise themselves with the University Intellectual Property (IP) guidelines that are available in the UC Policy Library and on the PG Studies website. Where the proposed research involves signing a contract with an external organization or funding provider, advice must be sought from Research & Innovation over the signing of the contract. Any implications of signing the contract for IP and/or publication of findings must be fully discussed with the student in advance of the contract being signed.*

1. The candidate and senior supervisor should reach agreement about access to data, especially where the candidate’s research is part of a wider research project.

*This agreement should be documented.*

1. If the candidate’s research will involve the use of dangerous/hazardous materials/equipment, or will, at least in part, be conducted in a dangerous/hazardous environment (e.g. field work in isolated terrains), the candidate has been (or will be) fully informed of the risks, provided with appropriate training, and informed about any necessary safety procedures, equipment, etc.

If the research is dependent on the approval of one of the University’s Human Ethics Committees or the Animal Ethics Committee, or any other committee or organisation, that approval process should be undertaken as soon as possible after the development of the research proposal. Those aspects of the research that require approval from an Ethics Committee shall not proceed until the approval has been acquired.

1. The senior supervisor and student will make themselves familiar with the relevant degree regulations, including deadlines.
2. The senior supervisor will provide the candidate with information about relevant departmental/school handbooks, guides, websites about postgraduate studies, resources etc., and the candidate undertakes to read the information provided in documents or on the website.
3. The candidate will fulfill departmental/school obligations to contribute to annual departmental/school conferences or research seminars.
4. In the event of the senior supervisor being absent on leave, retiring or resigning from the university, the department/school will take all reasonable stepsto ensure continuity of supervision, having consulted the candidate with regard to these arrangements.
5. The candidate has the right to request alternative supervision if he or she believes the project is being inadequately or inappropriately supervised. Any request should be made to the HoD/S, or Department/School Postgraduate Coordinator, or to the Dean of Postgraduate Research.
6. If the candidate’s work is deemed by the senior supervisor to be unsatisfactory, the seniorsupervisor must inform the candidate in writing. If progress continues to be unsatisfactory, the HoD/S, in consultation with the appropriate departmental/school parties, may recommend to the Dean of Postgraduate Research that the student’s candidature be terminated.

**PART E**: **SIGNATURES**

**Student**

I understand and accept the arrangements specified above

I would like to bring the following issue(s) to the attention of the HoD/S or nominee and/or the Dean of Postgraduate Research

     

Name/Signature:  Fernando Cagua     Date: 27 Jul 2015

**Supervisors**

I support the student’s continued candidature and am happy with the arrangements as specified above

I do not support the student’s continued candidature, for the reasons specified below

I would like to bring the following issue(s) to the attention of the HoD/S or nominee and/or Dean of Postgraduate Research

     

Senior Supervisor Name/Signature:       Date:      

Co-/Associate- Supervisor Name/Signature:       Date:      

Co-/Associate- Supervisor Name/Signature:       Date:      

**HoD/S or nominee**

I support the student’s continued candidature. Please complete the questions below.

I do not support the student’s continued candidature

Is it feasible for the proposed research to be completed in the normal time-frame for the Ph.D. degree (3 years full-time study, 4-5 years part-time)?**Yes** **No**

The supervision arrangements specified above are satisfactory?

*(including planned sabbatical leave by supervisors)* **Yes** **No**

If the student has to meet any of the costs of the research, he or she must be formally informed of this. Please confirm here that this has been done.

**Not applicable**  **Yes, the candidate has been informed**

Please add any supporting comments below

     

HoD/S or nominee Name/Signature:       Date:      

**To be completed by the Programme Coordinator – for Interdisciplinary Programmes only (ENVR790; BCHM790; CULT790):**

Please tick the appropriate box below

I endorse the panel’s recommendation above

Please add any additional comments below

I do not endorse the panel’s recommendation but instead suggest the following:

Programme Coordinator Name/Signature  Date:

***Please now forward this form to the Postgraduate Office as a word document attached to an email (***[***postgraduate-office@canterbury.ac.nz***](mailto:postgraduate-office@canterbury.ac.nz)***)***

**Dean of Postgraduate Research:**

Continued candidature is:  approved;  not approved

Comments:

Name/Signature:  Date: