

# EEB Conservation Science Meeting

## October 29<sup>th</sup>, 2019

### **What is conservation?**

- Combination of theoretical and empirical studies/ fundamental and applied research
- Study endangered species/species-at-risk
- Protection, restoration
- Fragmentation/Connectivity
- Human dimension/Ecosystem Services
- Multidisciplinary
- Balance between conserving nature and human development
- Conservation of biodiversity is the primary motivation of research questions regarding different systems, organismal levels, and scales

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### **Criteria for finding a conservation biologist candidate:**

- Has partnerships with NGO/Gov./Stakeholders
- Applicability of their research
- Think of themselves as conservation biologists
- They bridge the gap between theory and application
- Won't necessarily be a pure conservation biologist
- Communicates about conservation biology (ex. potential to provide courses etc.)
- Someone who translates science beyond academia to help informing policy

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### Potential Speakers

- *Kai Chan*
- Isabelle Côté
- Aaron Dunlop
- *Stephanie Green*
- Nancy Knowlton
- Julian Olden
- Jennifer Provencher
- Tara Martin
- Craig Moms
- Susanne Simard
- **Jennifer Sunday**
- Mark Boyce
- Aaron Ellison
- Kevin Gaston
- *Jeffery Hutchings*
- Lisa Levin
- Jane Lubchenco
- Daniel Pauly
- Hugh Possingham
- Richard Schneider
- Daniel Schindler
- Michael Solé



## **Graduate Student's Guide to Necessary Skills for Nonacademic Conservation Careers**

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Blickley et al. 2013. Graduate student's guide to necessary skills for nonacademic conservation careers. *Conservation Biology*, 27: 24-34.

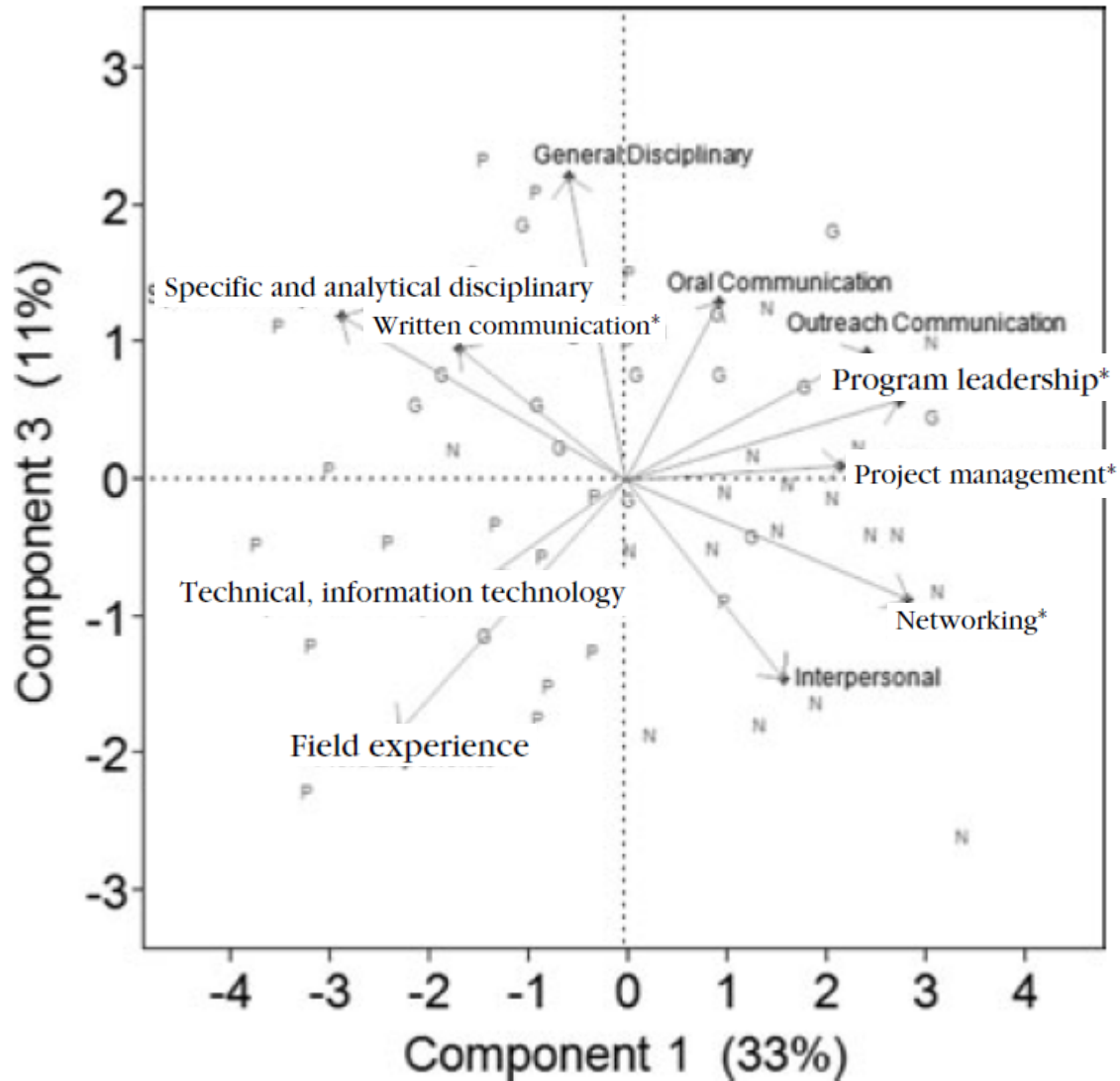
<i>Skill</i>	<i>Percent of job advertisement (SE)</i>	<i>Skill definition</i>	<i>Example keywords</i>
Specific and analytical disciplinary	21 (2)	knowledge of specific ecosystems, conservation issues or analytical tools	regulation, fauna, analy*, statistic
Project management*	11 (0.9)	process of managing projects that fall within a mission of an organization	manage*, implement
General disciplinary	9.8 (1)	knowledge of general scientific and conservation principles	principles, science
Interpersonal*	8.0 (0.7)	ability to engage in cooperative learning and produce products with a team of people	work with, cooperat*
Field experience	6.4 (1)	ability to conduct research in the field; specific field skills	field, outdoor
Written communication*	6.0 (0.5)	ability to write effectively in any forum relevant to the job title	writ*, report
Program leadership*	5.9 (0.7)	the process of leading and developing projects that fall within a mission of an organization	organize, design
Networking*	5.9 (0.6)	ability to identify and bring together many individuals on the basis of common ideas or goals	partner*, collaborat*
Personnel leadership	4.3(0.7)	process of managing personnel or cooperators in an organization	supervise, oversee
Technical, information technology	4.2 (0.6)	competency in using basic and specific software and technical tools	computer, software, GIS

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<i>Skill</i>	<i>Percent of job advertisement (SE)</i>	<i>Skill definition</i>	<i>Example keywords</i>
Oral communication	3.1 (0.4)	ability to speak effectively in any forum relevant to the job title	present*, verbal*
Outreach communication	2.6 (0.4)	ability to connect ideas or practices to the efforts of other organizations, groups, specific audiences or the general public	outreach*, public
Independent, self-starter	2.5 (0.4)	attribute of a person who is motivated to accomplish new endeavors on his or her own	independent, initiat*
Fundraising, monetary	2.1 (0.4)	experience raising money or managing budgets to support a research goal or a mission of an organization	budget*, grant*
Other communication	2.0 (0.3)	ability to communicate in unspecified manner	humor, relations
Ability to complete tasks	1.7 (0.3)	ability to complete projects in a timely and efficient manner	complet*, execut*
Inter-, multidisciplinary	1.1 (0.3)	training that crosses traditional boundaries between academic disciplines or schools of thought	discip*, divers*
Cultural, international experience	1.1 (0.3)	training that promotes understanding among cultures and countries	language, international
Conflict resolution, negotiation	0.7 (0.2)	ability to negotiate and resolve conflict with diverse stakeholders to advance the mission of an organization	negotiat*, conflict
Multitasking, prioritization	0.6 (0.2)	ability to balance multiple activities simultaneously	multitask, prioritize, balance

*\*Top 5 nondisciplinary skills.*

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<i>Government</i>		<i>Nonprofit</i>		<i>Private</i>	
<i>skill</i>	<i>percent of job advertisement (SE)</i>	<i>skill</i>	<i>percent of job advertisement (SE)</i>	<i>skill</i>	<i>percent of job advertisement (SE)</i>
Specific and analytical disciplinary	21 (2)	Project management*	14 (2)	Specific and analytical disciplinary	31 (4)
General disciplinary	14 (2)	Interpersonal*	11 (1)	Field experience	11 (2)
Project management*	11 (1)	Specific and analytical disciplinary	10 (2)	Project management*	8.1 (1)
Interpersonal*	7.7 (1)	Networking*	8.5 (1)	General disciplinary	8.1 (2)
Program leadership*	6.2 (1)	Program leadership*	8.1 (1)	Written communication*	7.5 (1)
Networking*	5.9 (0.8)	General disciplinary	6.8 (0.9)	Technical, information technology *	6.3 (1)
Field experience	5.9 (2)	Personnel leadership*	4.6 (1)	Interpersonal*	5.9 (1)
Written communication*	5.8 (0.7)	Written communication	4.6 (0.8)	Personnel leadership*	4.9 (1)
Oral communication	3.7 (0.7)	Fundraising, monetary	4.2 (0.9)	Program leadership	3.5 (0.9)
Personnel leadership	3.3 (0.9)	Outreach communication	4.1 (0.8)	Networking	3.3 (0.9)
Outreach communication	3.2 (0.7)	Technical, information technology	4.0 (0.9)	Independent, self-starter	2.5 (0.7)
Technical, information technology	2.3 (0.7)	Oral communication	3.6 (0.6)	Oral communication	2.0 (0.7)

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<i>skill</i>	<i>percent of job advertisement (SE)</i>	<i>skill</i>	<i>percent of job advertisement (SE)</i>	<i>skill</i>	<i>percent of job advertisement (SE)</i>
Ability to complete tasks	1.9 (0.5)	Other communication	3.2 (0.6)	Other communication	1.6 (0.5)
Independent, self-starter	1.9 (0.5)	Independent, self-starter	3.1 (0.9)	Complete tasks	1.2 (0.5)
Conflict resolution, negotiation	1.6 (0.5)	Field experience	2.8 (1)	Fundraising, monetary	1.0 (0.5)
Other communication	1.3 (0.5)	Cultural/international experience	2.2 (0.8)	Inter-, multidisciplinary	0.8 (0.4)
Fundraising, monetary	1.1 (0.4)	Ability to complete tasks	1.9 (0.6)	Cultural/international experience	0.6 (0.6)
Inter-, multidisciplinary	1.0 (0.5)	Inter-, multidisciplinary	1.6 (0.4)	Outreach communication	0.5 (0.2)
Multitasking, prioritization	0.5 (0.3)	Multitasking, prioritization	0.9 (0.4)	Multitasking, prioritization	0.5 (0.3)
Cultural, international experience	0.3 (0.2)	Conflict resolution, negotiation	0.4 (0.2)	Conflict resolution, negotiation	0.1 (0.1)

*\*Top 5 nondisciplinary skills for each sector.*

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