Introducing the BIOS^2 program

an NSERC CREATE funded program

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Two challenges for Canadian biodiversity science

Challenge #1

A lack of accessible, organized biodiversity data

- Difficult to assess current biodiversity

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- Difficult to make decisions about the future

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- Difficult to make decisions about the future

- Difficult for stakeholders to make decisions

Challenge #2

Adopting modern computational approaches in biodiversity science

- Academic biodiversity science is increasingly multidisciplinary

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- Students increasingly seek for computational & communication skills

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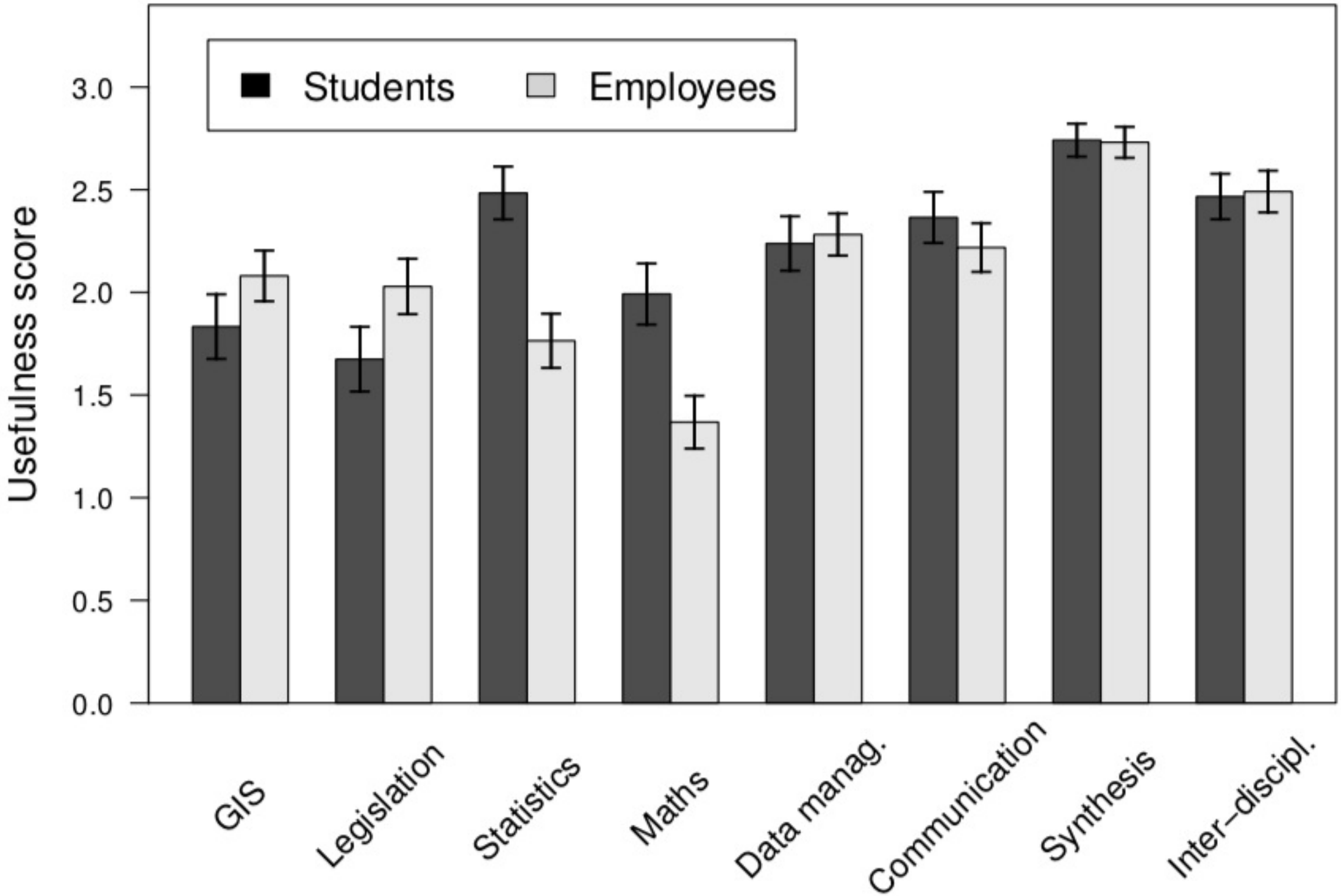
- Students increasingly seek for computational & communication skills

- Employers look for them too!


Students
Employees
Usefulness score
3.0
2.5
2.0
1.5
1.0
0.5
0.0
GIS
Legislation
Statistics
Maths
Data manag.
Communication
Synthesis
Inter−discipl.

Can we respond to both of these challenges at once?

Introducing the BIOS^2 Fellows!

An NSERC CREATE program

The BIOS^2 program trains biodiversity scientists in modern computational methods

There are two main components to this training:

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1. Training modules from top Canadian biodiversity scientists

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1. Training modules from top Canadian biodiversity scientists

2. Paid internships within our Partner organizations

co-PIs

name	Expertise	Module
Dominique Gravel	Theory & Modelling	Tools for biodiversity monitoring
Philippe Archambault	Marine ecosystems	Environmental impact assessments
Marie-Josée Fortin	Landscape ecology	Quantitative methods in conservation biology
Sarah P. Otto	Evolution	Mathematics for applied biodiversity science
Erin Bayne	Cumulative impacts	Database management for collaborative research
Joel Bêty	Arctic ecosystems	Organization of expertise panels and network events

co-PIs

name	Expertise	Module
Anne Bruneau	Plant systematics	Open access databases in taxonomy and biodiversity
Andrew Gonzalez	Biodiversity science	Quantitative biodiversity science for global change
Steve Kembel	Microbial ecology	Novel technologies for biodiversity monitoring
Timothée Poisot	Computational ecology	Issues and opportunities in open science
Pedro Peres-Neto	Statistics	Advanced methods in biodiversity data analysis

Who can participate?

Requirements for Fellows:

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current PhD student

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working with an associated Faculty member

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From another university? Master's or Postdoctoral researcher? stay tuned!

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create one 15 hour module in computational biodiversity science

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create one 15 hour module in computational biodiversity science

provide (non-financial) support for student during internship

Applications are open!

PhD students from participating universities are invited to apply!

Deadline: Friday 14th December