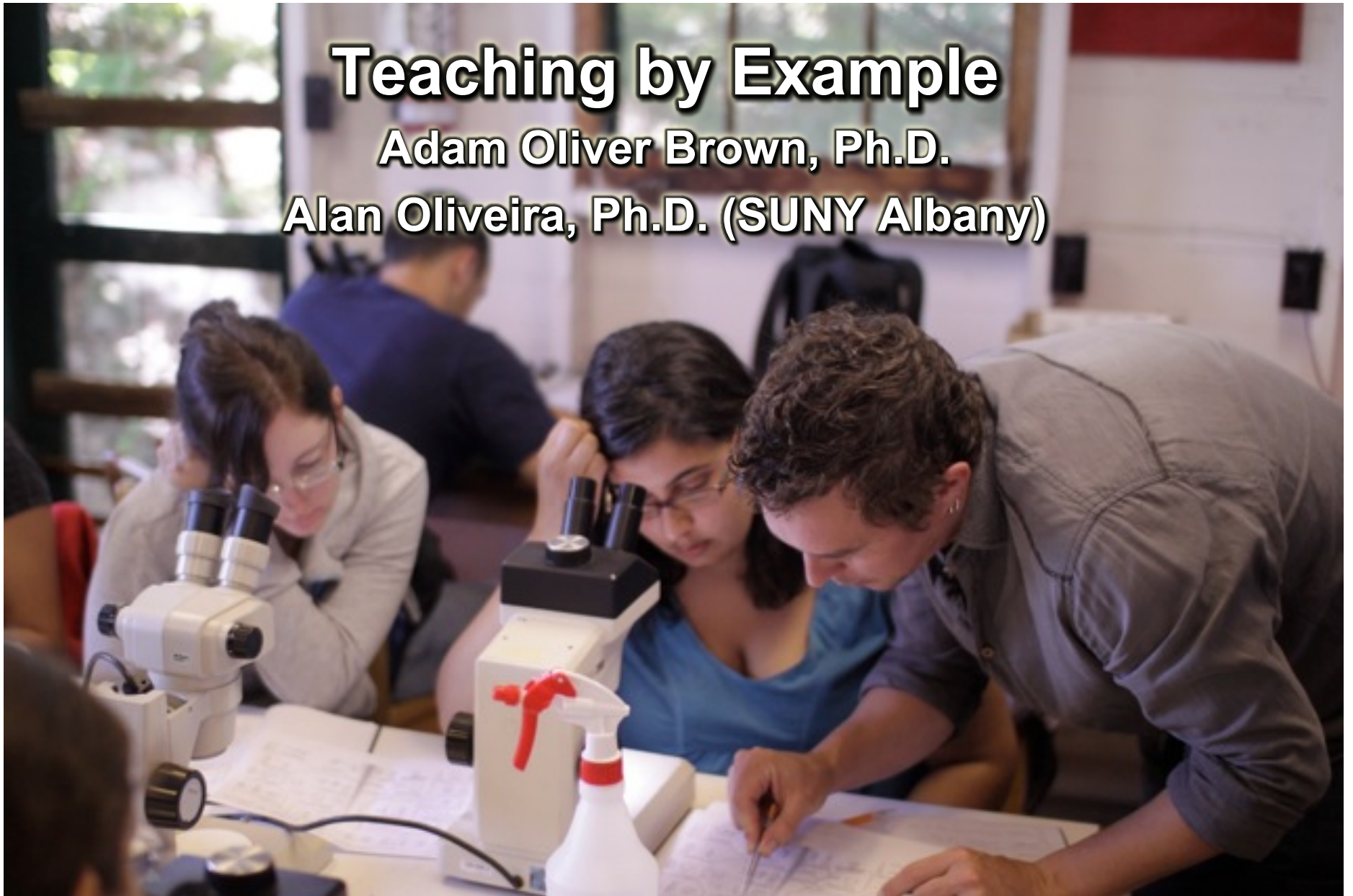


Teaching by Example

Adam Oliver Brown, Ph.D.

Alan Oliveira, Ph.D. (SUNY Albany)



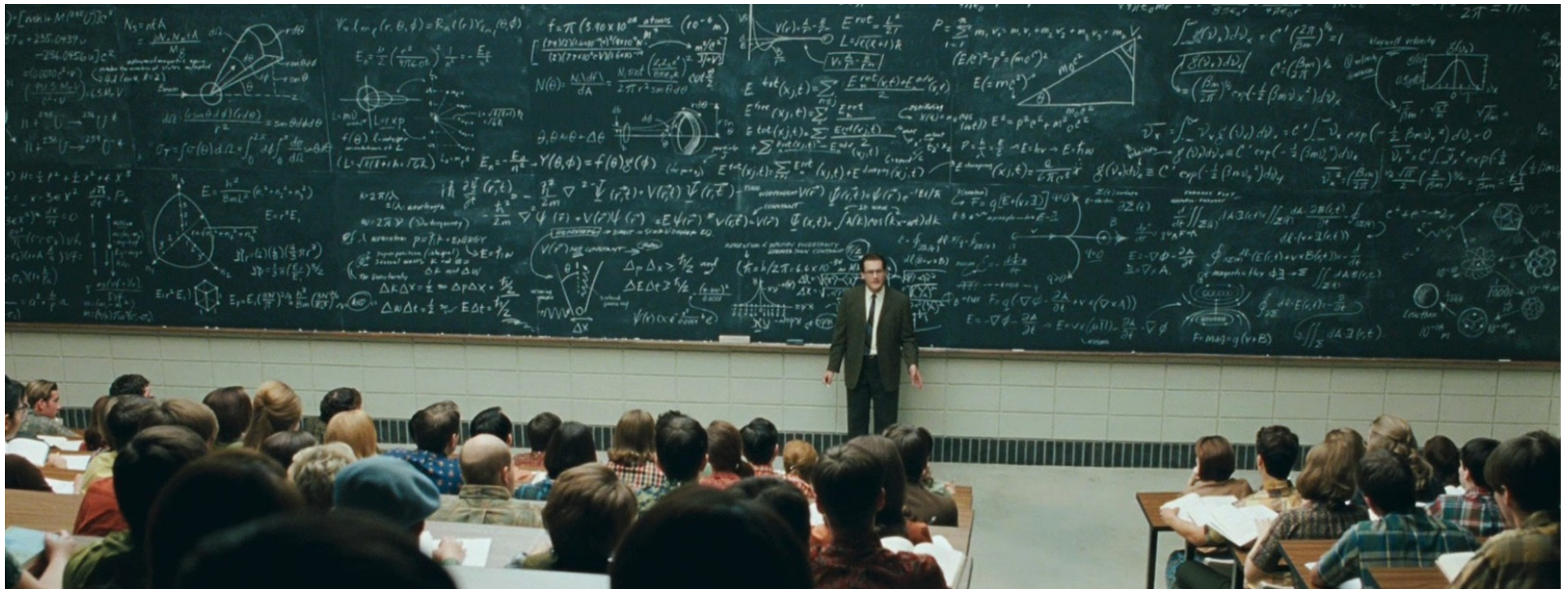
Teaching with Examples



- **Develop/clarify concepts**
- **Support abstract ideas**
- **Illustrate scenarios**
- **Inform/persuade students**



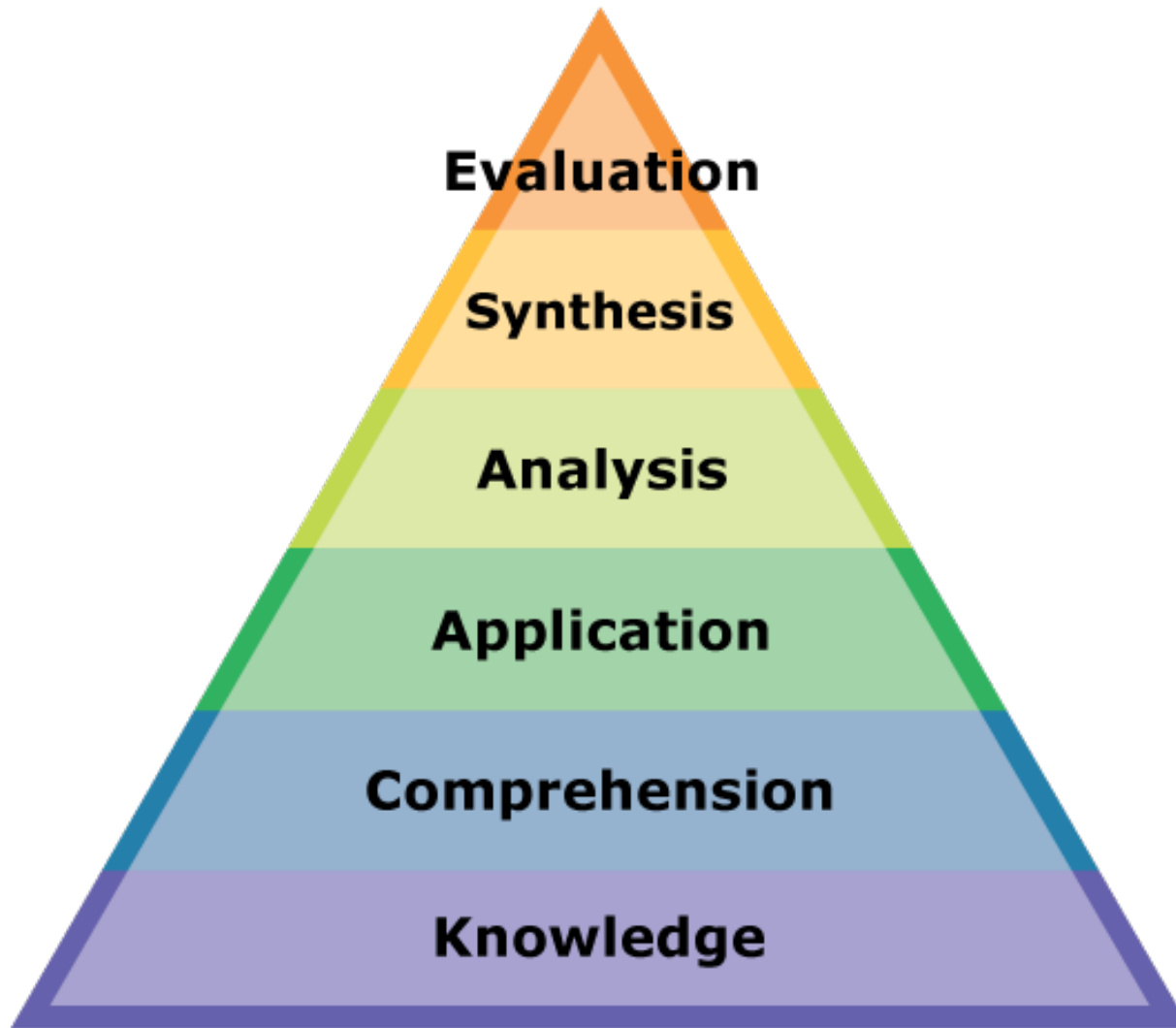
Exemplary Pedagogy



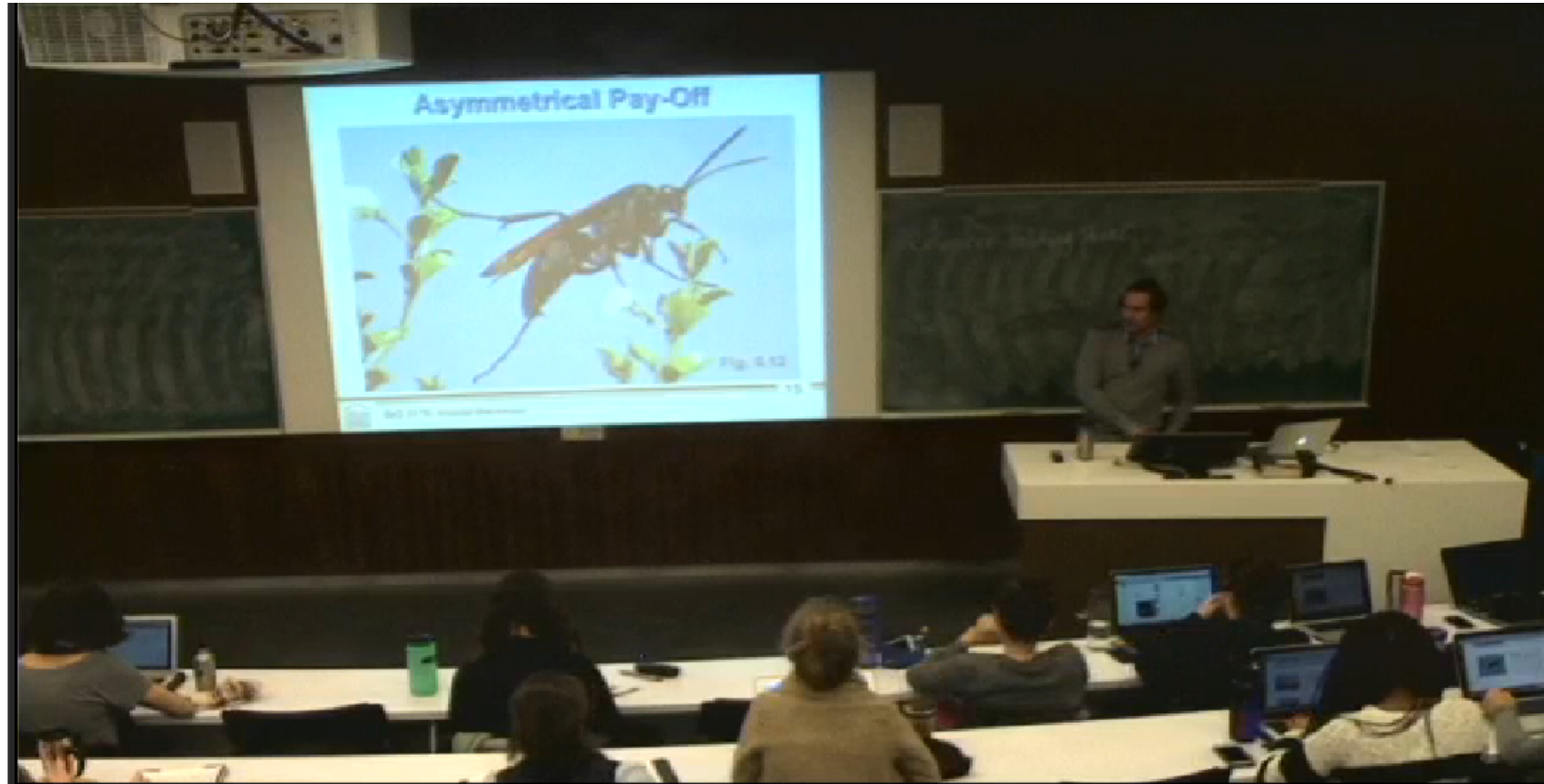
Typically: General rule > then illustrate with example



Bloom's Taxonomy



Teaching by Exemplification



Teaching by Examples



- More interesting to students
- Promotes active/engaged learning (interruptions)
- Participatory
- Provides learning scaffold



See the Forest for All the Trees



Teaching by Exemplification



Bluffing Threat Displays



Honest Signaling

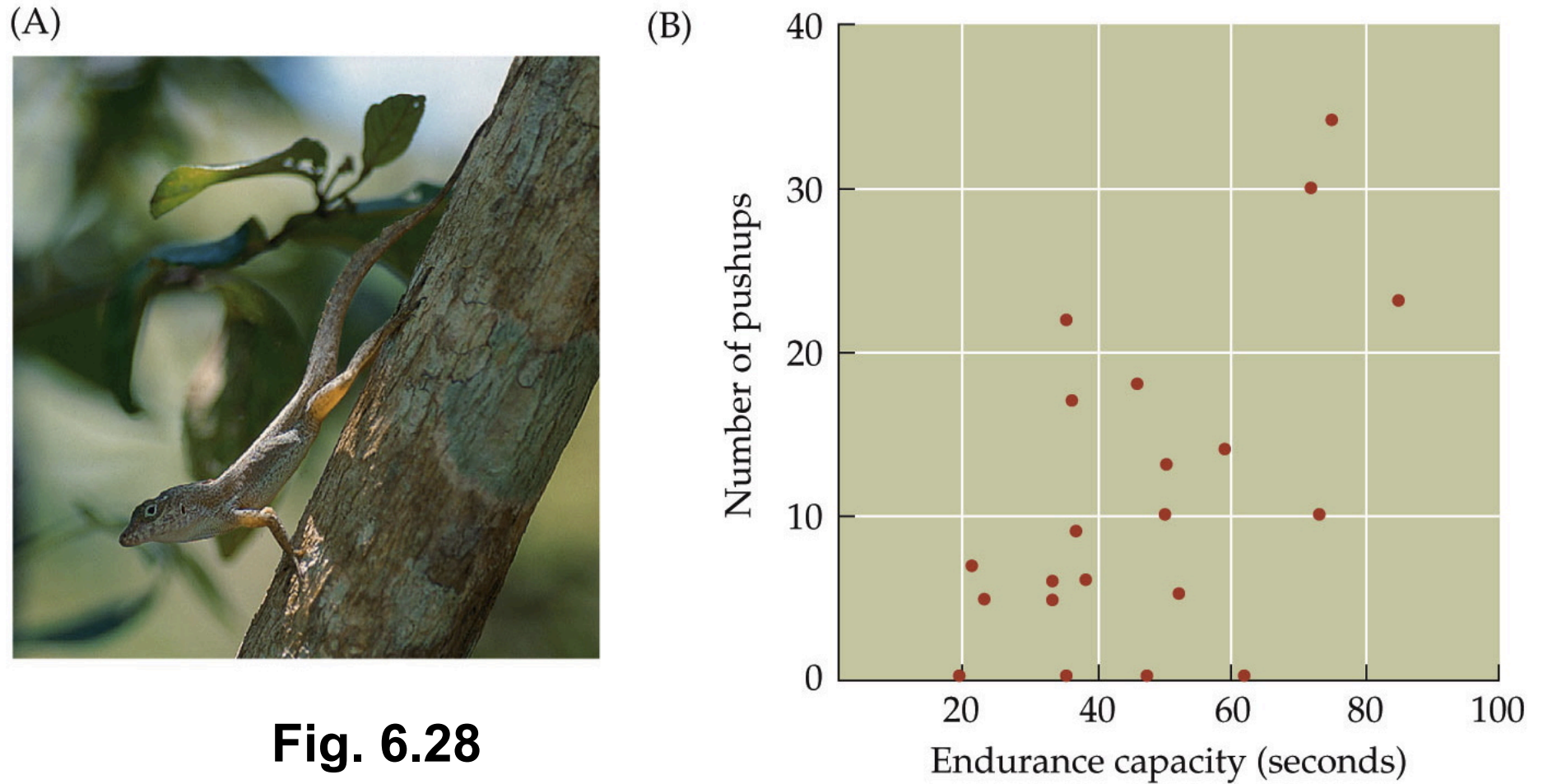
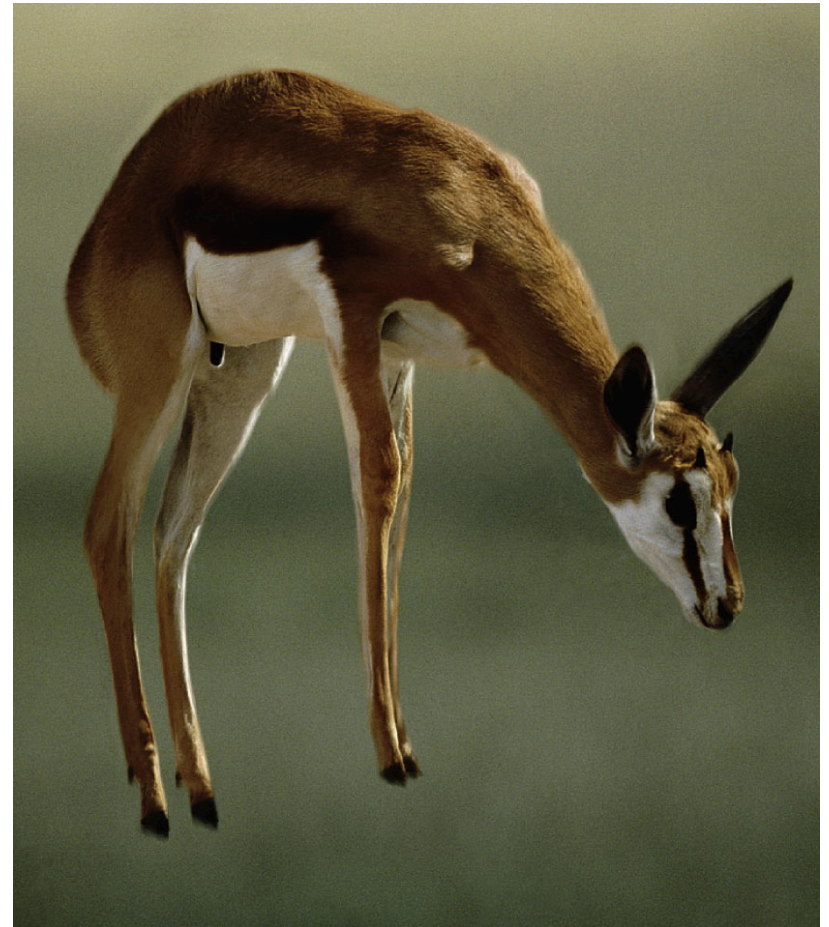


Fig. 6.28



Come-and-Get-Me Behaviours



Mobbing Behaviour



Testing the Prediction



Black-headed gull

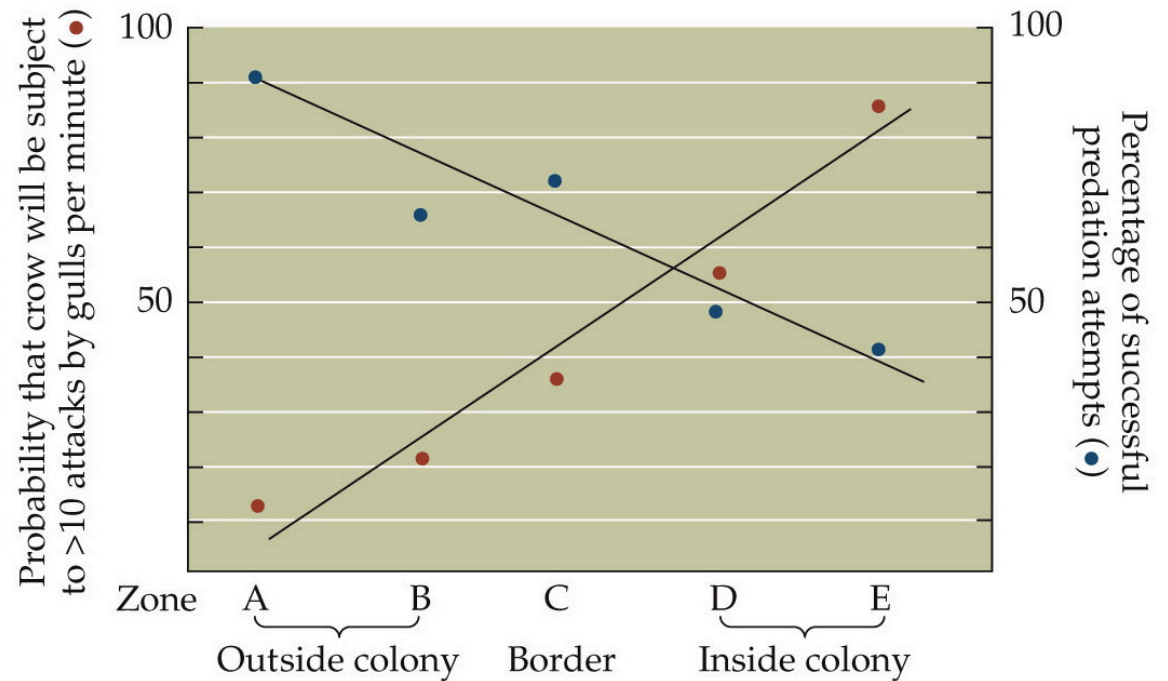


Fig. 5.3



Chick Begging



Cost of Begging

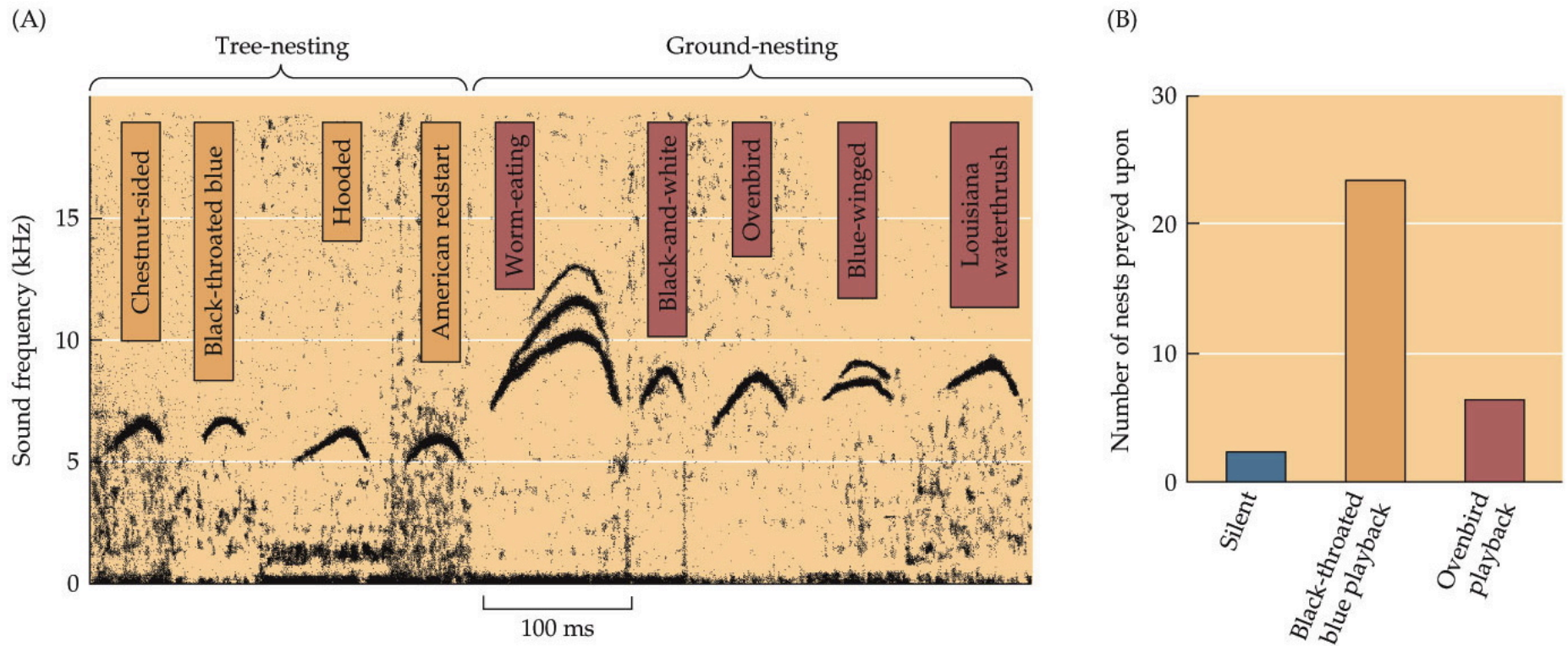
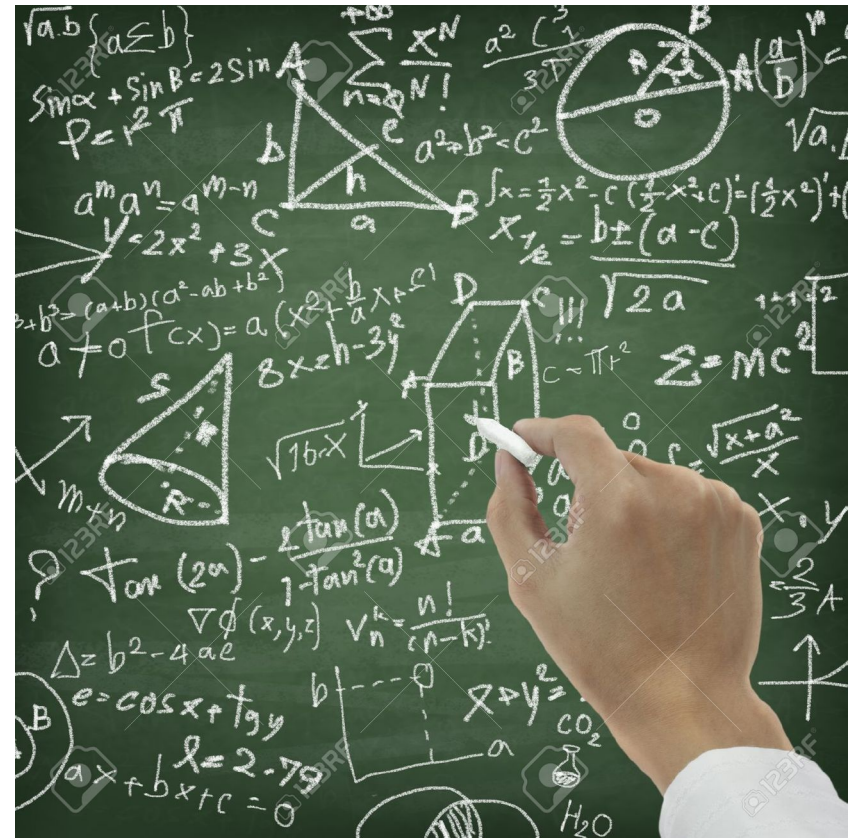


Fig. 4.32

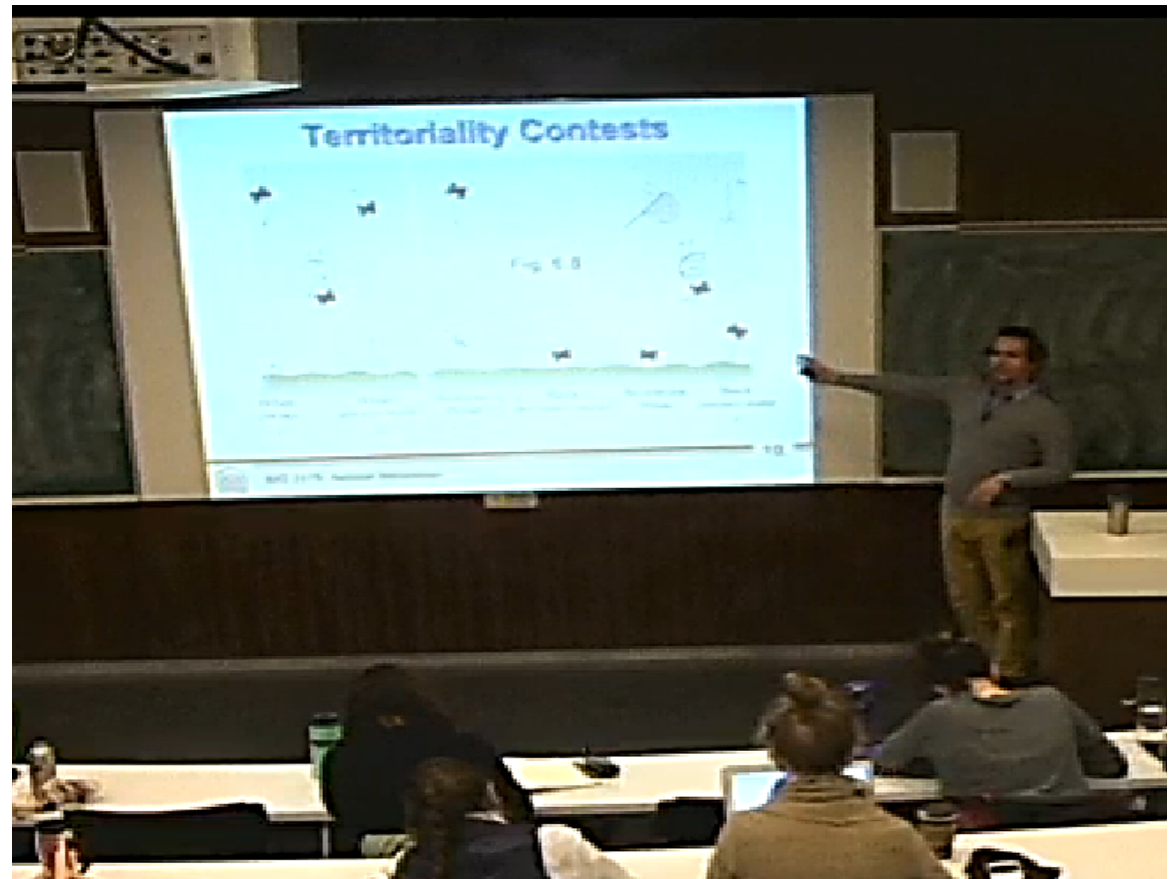
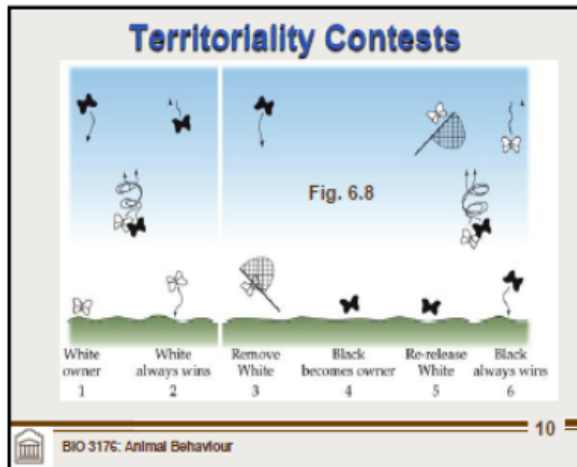


Studies of Exemplification

- Michener (1978)
 - Start-up examples: intro to new theory/concepts
 - Reference examples: widely applicable standard cases
 - Model examples: generic cases that summarize
 - Counter examples: show that conjecture is false



Teaching and Learning with Examples

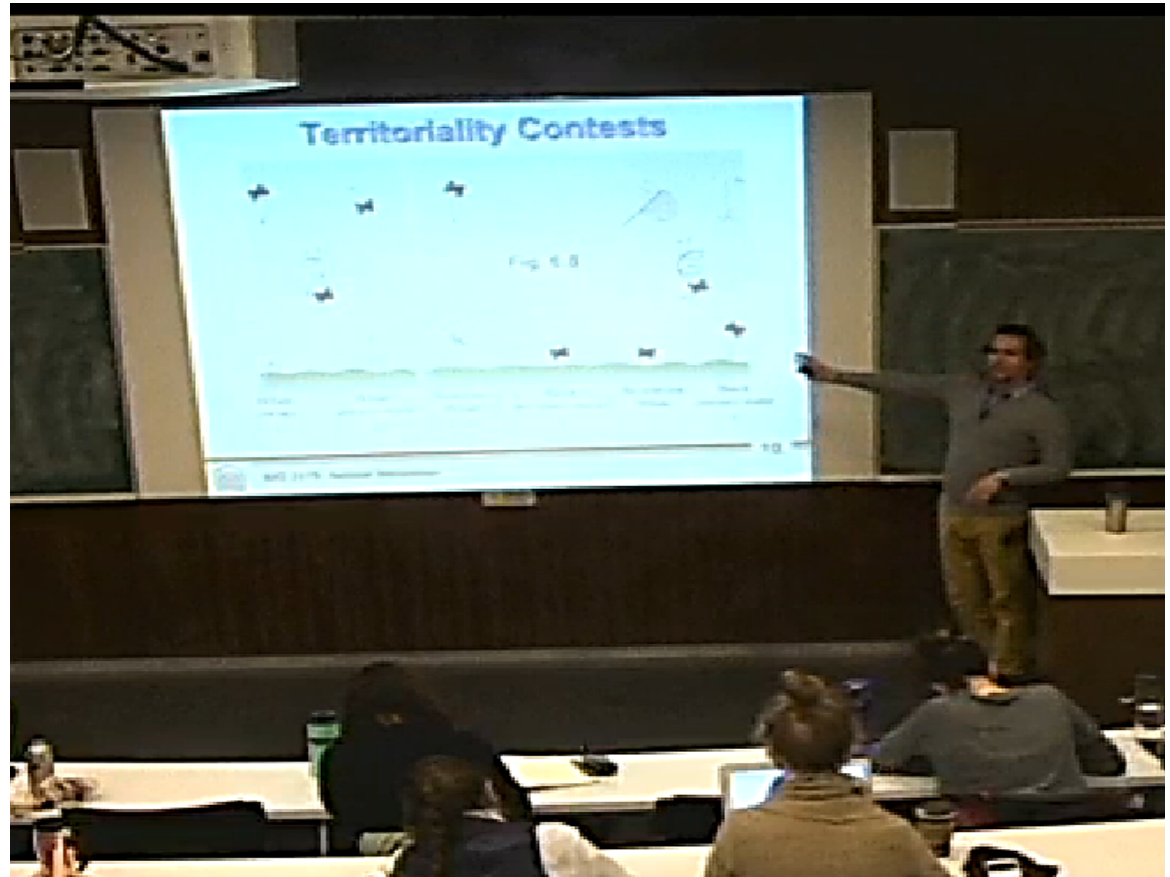


**Echo 360
Podcast Analysis**



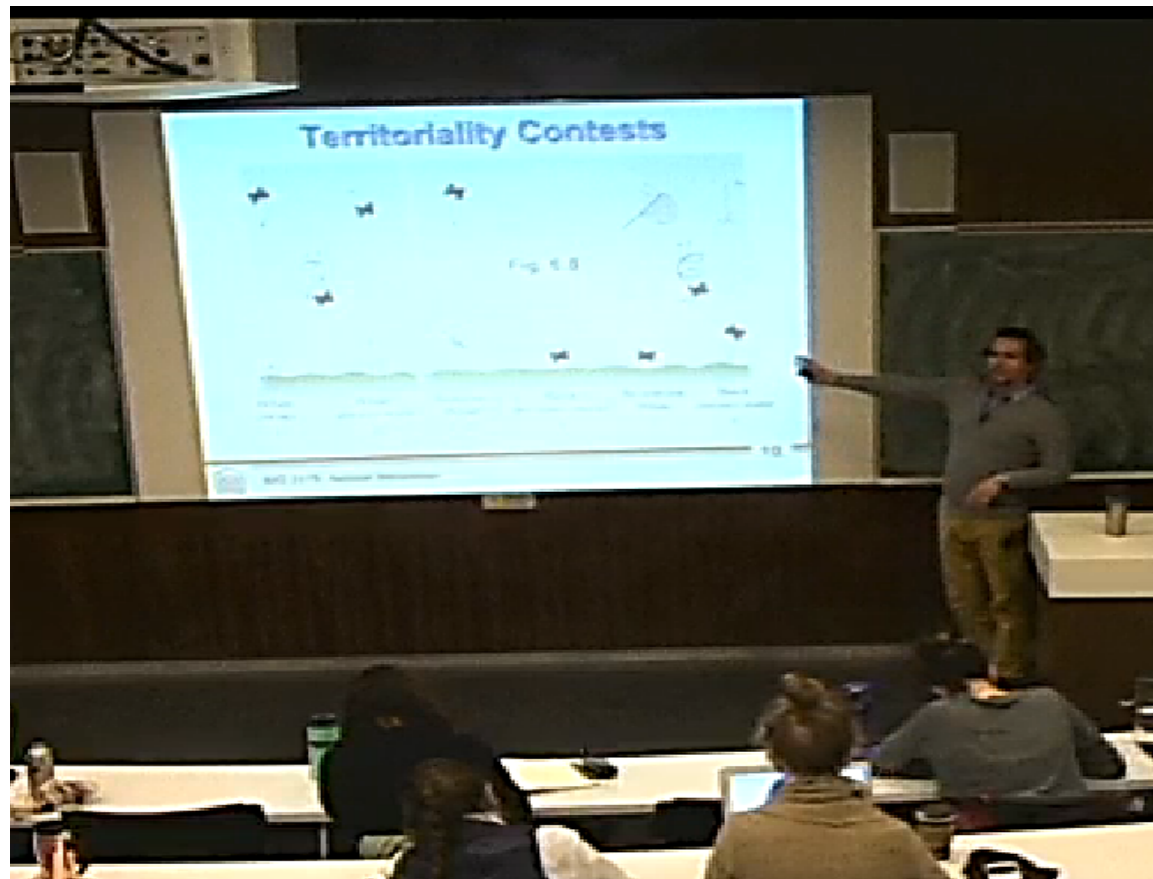
Data Analysis

- **Intra-example features**
 - Design and structure
- **Inter-example features**
 - Sequencing and arrangement



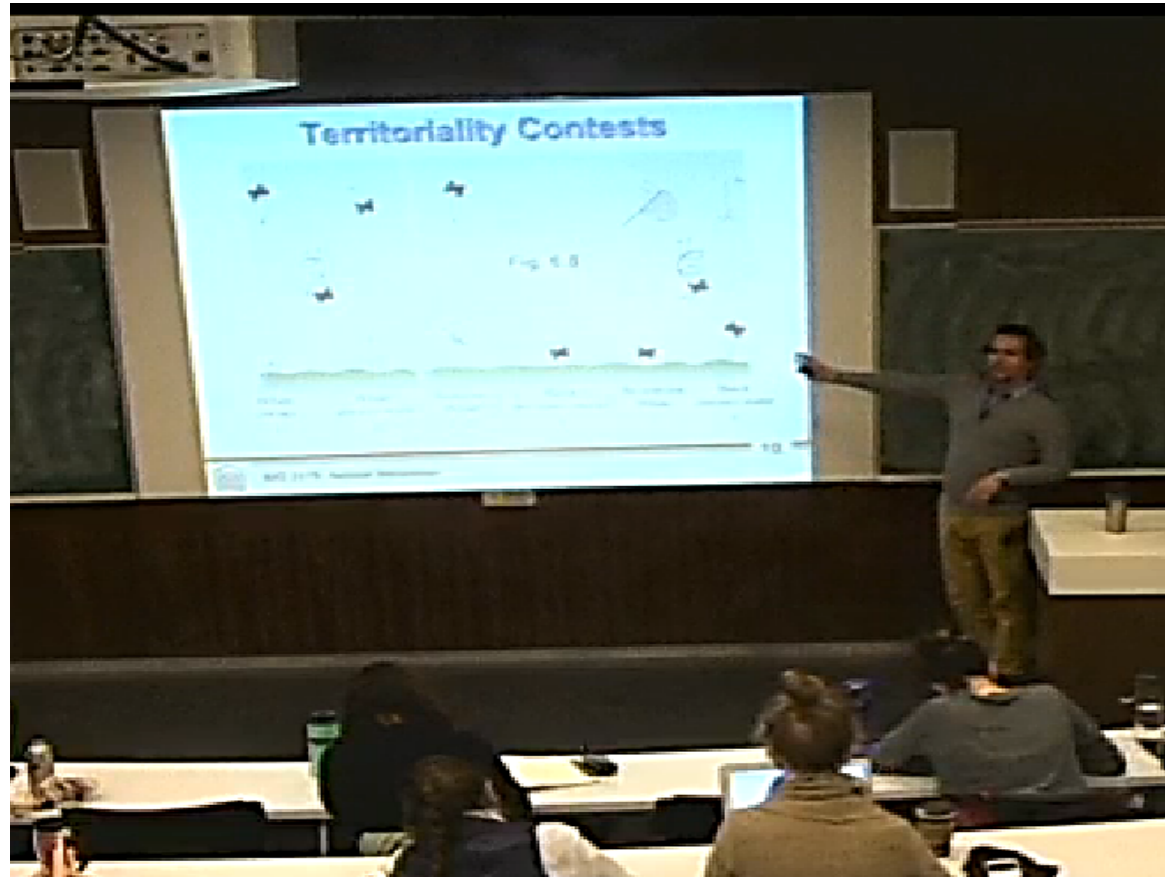
Data Analysis – Intra-example

- **Focus**
 - What example is about
- **Involvement**
 - Degree of personal involvement

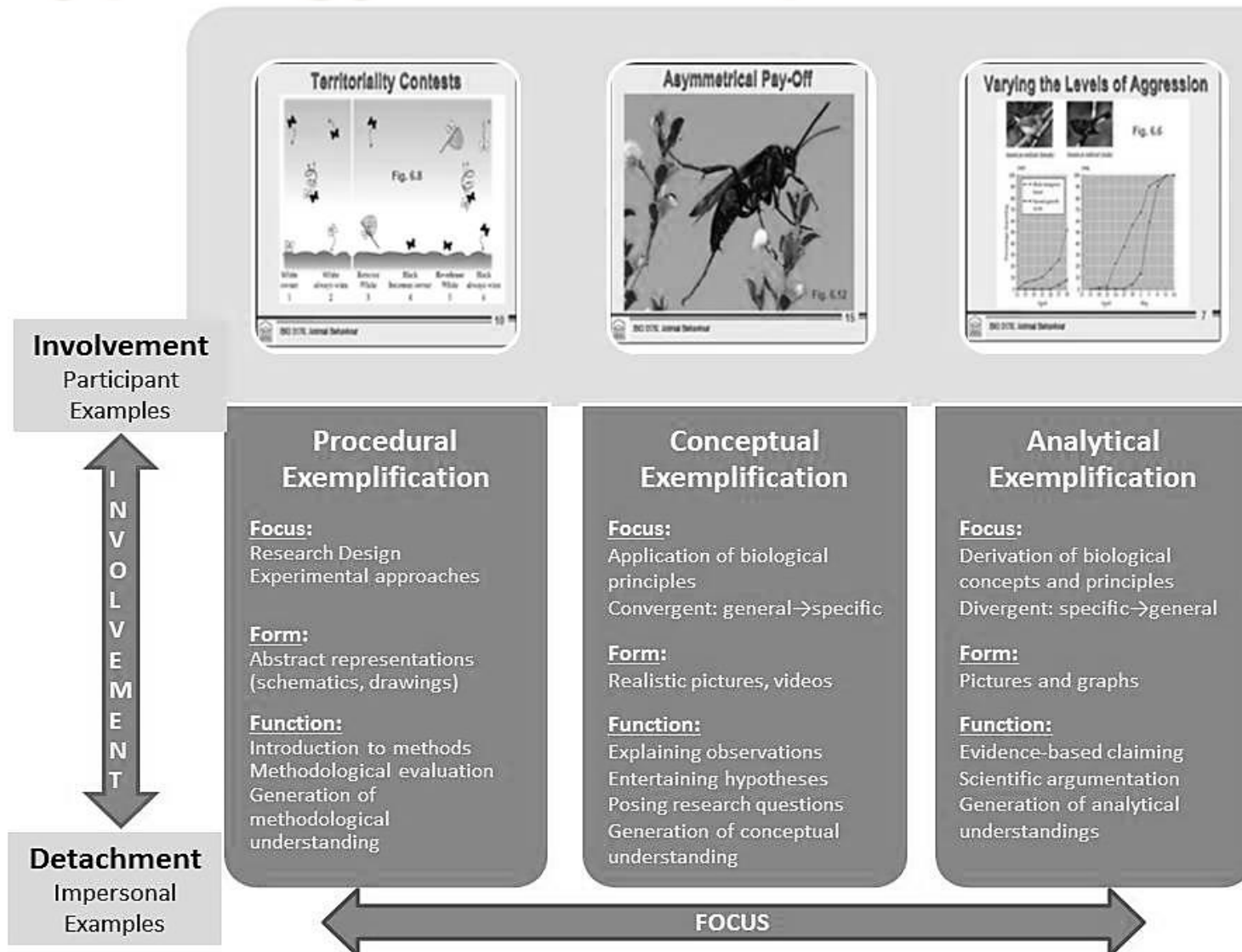


Data Analysis – Student Experience

- Individual surveys
- Focus group interviews
- Written artifacts



Typology of Exemplification



Questions?

