How to Conduct Language Sciences Research at the COSI Museum

September 21, 2012

This workshop is funded by an ASC Innovation grant to the BLN for the Study of Language Variation

Schedule

• Welcome and Introduction to the Language Pod
  — Andy Aichele, Director of Human Capital Development at COSI
• Overview of COSI
  — Laura Wagner
• General Rules for Using the Pod (Laura Wagner)
• Outreach (Kathryn Campbell-Kibler)
• IRB approval process (Cynthia Clopper)
• Recruitment (Suzy Watkins Martinez)
• One on one time with Pod committee
  — Laura, Kathryn, Cynthia, Shari Speer, Kiwako Ito

Introduction to the Language Pod

• What IS the pod?
  — Part of the COSI LIFE exhibit
  — One of the “Labs in Life” research spaces
  — A glass-enclosed research space containing state-of-the-art research equipment that is IRB approved to run COSI visitors (and others) as participants in studies

General Info

• Coordinated by the Buckeye Language Network (BLN)
• We will be in the pod until at least December 2014
• Funding:
  — Office of Research
  — Departments of Psychology and Linguistics
  — Battelle BETHA grant
Pod Mission

• Research
  – To advance knowledge in the language sciences

• Education/Outreach
  – To educate the COSI visiting public about language
  – To educate OSU students about language as well as about how to communicate language science information to the public

Pod Resources

• For research
• For outreach

• COSI course (Psych/Ling/Edutl 5700)
• Personnel (at least for this academic year)

Research Equipment

• PC Desktop computers (2)
  – Fully equipped with Eprime and Medialab software

• ASL Eye-tracker (1)

• Button boxes, Video Cameras, Microphones, Headphones, Audio Recorders, Mac Desktop, Child’s table and chairs, Ipads, and more!

Outreach

• Ipads
  – Used for demonstrations (we currently have 3 ready to go)

• Pod-TV
  – Informational (and recruitment) slides presented on a giant TV facing out

COSI Course

• Psych/Ling/Edutl 5700
  – Trains students to act as an interface between the research space and the COSI visitors and to recruit research subjects
  – Students spend 4 – 6 hours/week (post-training) working out at COSI
  – Open to undergraduates and graduate students
  – Fall 2012: Psych 5700
  – Spring 2013: Edutl 5700 (we hope!)
  – Fall 2013: Ling 5700 (most likely!)

Personnel

• Programmer for the Eye-Tracker
  – Ping Bai

• Jack of all trades
  – Mike Phelan

• At least through summer 2013....
• Thank you Battelle!!
Our Goal

• The BLN draws its membership from all around OSU's campus and includes people working on language from many different perspectives

• We would like to see all of those perspectives reflected in the research being conducted at the pod

Introduction to COSI

• Welcome Andy Aichele Director of Human Capital Development at COSI

General Rules for Using the Pod

• Any faculty member who is affiliated with the BLN is eligible to use the space
  – How do you become affiliated? Just sign up for the list-serv!

• Grad students may ONLY conduct studies in the pod if they are sponsored by a BLN faculty member
  – Sponsoring faculty have the SAME responsibilities as faculty conducting their own studies do

What You Must Do for the Pod

• YOU DO NOT HAVE TO PAY ANY MONEY TO USE THE POD.

What You Must do for the Pod

• Get COSI-trained (“On-boarded”)
• Get IRB approval (more on this later)
• Be respectful of all pod equipment and follow all pod guidelines

• Give back with SWEAT EQUITY
  – Spend 4 hours/week IN THE POD in the term your study is running
  – Take on one major chore (create a demonstration, augment IRB capabilities, provide specialized training)

What the Pod will do for You

• Access to all our resources
  – Equipment
  – Umbrella IRB and COSI visitors
  – COSI course student explainers

• Help
  – With the IRB
  – With recruitment
  – With how to make things work at the pod
Outreach
• Kathryn Campbell-Kibler

IRB Approval Process
• Cynthia Clopper

IRB Approval Process for the Pod
• An IRB umbrella protocol has been approved that will cover all of the research conducted in the Language Pod

• The Pod Protocol covers a wide range of behavioral methods
  – cognitive and developmental psychology
  – linguistics
  – speech and hearing sciences

Approved Research Areas
• Individual projects can be added to explore:
  – production
  – perception
  – comprehension
  – on-line processing
  – acquisition
  – attitudes

• Research has been approved for children as young as 2 years old and adults as old as 105 years old

Study-Specific Amendments
• IRB approval for individual research projects must be obtained by amending the Pod Protocol to add the specific project
  1. OSU faculty member who agrees to be responsible for oversight of the project submits the amendment and pod research agreement to the protocol PI (Cynthia Clopper)

• protocol PI signs the amendment and submits it to the IRB

Approved Templates
• 1. signed, electronic, and verbal consent (for adults), assent (for children), and parental permission templates
• 2. signed and electronic audio/video taping releases
• 3. verbal and electronic recruitment templates
• 4. debriefing brochure template

• These materials are templates and should be completed with project-specific information and submitted to the IRB for approval
**Electronic Recruitment Template**

**Goals of the Study**
- We are testing how children understand common metaphors in language, such as how we use physical actions to understand verbal actions.
- We show children pictures and ask them to use a specific metaphor to tell them about them.

**How Can You Help?**
- We are looking for preschool-aged children.
- You will have an opportunity to be part of the study.
- The study lasts around 15 minutes.
- Our volunteers are very kind and open about participating in this study.

**What Does This Have to Do With Science?**
- Some metaphors are easy to get at and words used for metaphors are also used to describe the world.

**Debriefing Brochure Template**

**Amendment Materials**

1. summary of the project background and rationale
2. description of the target participant population
3. explicit statement of the duration of the study
4. description of how consent, assent, and/or parental permission will be obtained
5. description of the experimental procedures to be used, including sample stimulus materials
6. study-specific recruitment and debriefing materials
7. study-specific consent, assent, and/or parental permission forms/scripts

**Instructions and Templates**

- [http://www.ling ohio-state.edu/~cclopper/cosi/](http://www.ling.ohio-state.edu/~cclopper/cosi/)

**Recruitment**

- Suzy Watkins Martinez

**One-on-One Time**

- If you are interested in getting your language sciences research into the pod, please sit down with a member of the Pod Committee to talk about how to work out YOUR particular details!