Projects and interests:
A variety of opportunities for independent study, work-study, and research assistantships. Research involves experimental studies of language comprehension, vision and spatial reasoning. Specific ongoing projects include studies of:

1) Reading and understanding in Chinese, Arabic and others.
2) Learning different kinds of artificial languages.
3) Neurological functioning during normal language behavior (using EEGS).
4) Perception of depth in visual arrays.

Students work closely with Dr. Bever and graduate students and are encouraged to develop their own project within the framework of one of the labs. Often leads to an honors thesis, and sometimes to a conference presentation or publication.

Professor:  Thomas Bever
Email:  tgb@u.arizona.edu

Projects and interests:

1) SCOTTISH GAELIC DESCRIPTIVE SYNTAX PROJECT. Students will work on entering original field data into a database and/or assist in the editing of sound files.
2) SCOTTISH GAELIC PHONOLOGY AND PHONETICS PROJECT. Students will work on data processing on a number of experiments analyzing aspects of the phonology of Scottish Gaelic.
3) ANY PROJECT (of student’s choice) on syntax, morphology, or semantics.

Professor:  Andrew Carnie
Email:  carnie@u.arizona.edu

Projects and interests:

1) Various projects on the documentation and teaching of endangered languages. Recent projects include the development of web-delivered courses on language documentation, maintenance and revitalization for endangered language communities.
2) Various projects relating to the pedagogical uses of technology for the teaching of languages and linguistics.
3) Any topic (of the student's choice) in the area of prosodic phonology, language documentation, morphophonology, or the study of endangered languages.

Professor:  LouAnn Gerken
Email:  gerken@u.arizona.edu

Projects and interests:
In the Tweety Lab, we use preference tasks with 6- to 18-month-olds to ask what knowledge of their native language infants and children have, and what they can learn about a new language in a very short time. We also use production tasks to study the linguistic and psychological factors at work when 2- to 4-year-olds produce words and sentences.

Professor:  Sandiway Fong
Email:  sandiway@u.arizona.edu

Projects and interests:

1) Work on verifying the operation and corpora for an existing Government and Binding (GB) parser.
2) Computation and Minimalist parsing. Implementation of additional phenomena in the probe-goal model. A prototype computer implementation is available.
3) Semantic inference and processing with WordNet. New projects possible.
4) Arabic language treebank construction. Funding available.
5) Annotator and web programming opportunities. Funding available.

Professor:  Heidi Harley
Email:  hharley@u.arizona.edu

Projects and interests:

1) Activities in the SPAM Lab. Students can work in the lab designing and running experiments, doing statistical and/or acoustic analysis, etc. Projects concern phonological processing and speech perception. No specific background required.
2) Phonology. Students can work on various phonological topics, especially those dealing with English, or syllables, or stress, or OT. Students should have had appropriate coursework for the project.
3) Computational linguistics. Students should have had appropriate coursework for the project.
4) Welsh and Scottish Gaelic. Students can work on projects to do with the phonology of these Celtic languages.
5) Poetic meter and language games. Projects to do with the phonological implications of poetry and language games.

Professor:  Mike Hammond
Email:  hammond@u.arizona.edu

Projects and interests:

1) Computational linguistics. Students should have had appropriate coursework for the project.
2) Focus and topic constructions and their realizations in different languages.
3) Complex predicate constructions: combination of a verb and another element to represent a simple verbal concept in various languages.
4) Verb-second phenomenon in Germanic languages.
5) Arbitrary control; obligatory and non-obligatory control

Qualifications: 201, and ideally 300 or 310.
**Projects and interests:**

1) **Any topic in formal semantics, pragmatics, or philosophical logic.**

2) **Any topic concerning the documentation and description of Mesoamerican languages.**

3) **PLURALACTIONAL AND ARGUMENTATION STRUCTURE PROJECT.** Students will either help (i) conduct experiments on the interpretation of collective, distributive, and pluractional expressions in English, or (ii) build a database of pluractional effects on argument structure based on previous typological and descriptive literature.

4) **USPANTEKO PHONOLOGY AND PHONETICS PROJECT.** Students will work on processing and analyzing data from narratives and experiments to answer questions about various prosodic phenomena of the Mayan language Uspehteko.

**Professor: Robert Henderson**

**Email:** rhenderson@email.arizona.edu

**Projects and interests:**

1) Any topic in formal semantics and/or pragmatics - this includes the (morpho)syntax interface - and at any level.

2) Modality and evidentiality, both empirically and theoretically (syntax/semantics)

3) Questions, both empirically and theoretically (syntax/semantics/pragmatics)

4) Causatives, both empirically and theoretically (syntax/semantics)

5) Fieldwork and language documentation, i.e. sketches of any area of a language (phonology, morphology, syntax, semantics). No specific region/language family.

**Professor: Tyler Peterson**

**Email:** tylerpeterson@email.arizona.edu

**Projects and interests:**

1) Any area in formal semantics and/or pragmatics - this includes the (morpho)syntax interface - and at any level.

2) Modality and evidentiality, both empirically and theoretically (syntax/semantics)

3) Questions, both empirically and theoretically (syntax/semantics/pragmatics)

4) Causatives, both empirically and theoretically (syntax/semantics)

5) Fieldwork and language documentation, i.e. sketches of any area of a language (phonology, morphology, syntax, semantics). No specific region/language family.

**Professor: Massimo Piattelli-Palmarini**

**Email:** massimo@u.arizona.edu

**Projects and interests:**

1) **BIOLOGICAL FOUNDATIONS OF LANGUAGE, in particular language pathologies (e.g., aphasia, dyslexia, Williams Syndrome, the case of "savants"), the genetics of language (in particular the gene FOXP2), neural correlates of language.**

2) **LANGUAGE EVOLUTION (especially non-adaptationist/non-functionalist approaches), aspects of syntax that cannot be explained by the use of language in communication, Minimalism and optimal solutions in biology.**

3) **DEEP FORMAL INVARIANTS OF LANGUAGE.** Fibonacci numbers in syllables, prosody and syntax. The syntactic tree as the optimal solution to the problem of minimizing dependencies while allowing expansion. Scaling laws in evolution or brain structure and organization, with interesting consequences for language.

4) **ATTITUDES DE SÈ (the syntax and semantics of referring to oneself, an inter-languages comparative analysis).**

5) **THEORIES OF REFERENCE: Is the semantics of natural languages purely "intensional"? (Entirely internal) (work by Noam Chomsky, Paul Pietroski, James McGilvray) Or do linguistic expressions refer to external mind-independent objective entities? (Work by Jerry Fodor and Zenon Pylyshyn).**

**Professor: Andy Wedel**

**Email:** wedel@email.arizona.edu

**Projects and interests:**

Work on the evolution of language sound systems over time, primarily using phonetic data from experiments and language corpora. Previous independent studies have involved learning to use various software packages to annotate and analyze experimental phonetic data.

**Qualifications:** No prior qualifications are required beyond responsibility and interest.

**Professor: Adam Ussishkin**

**Email:** ussishki@u.arizona.edu

**Projects and interests:**

Experiment design, item selection, and running experiments. 

**Qualifications:** Passing grade in LING 314 or LING 315.

**Professor: Natasha Warner**

**Email:** nwarner@u.arizona.edu

**Projects and interests:**

1) **Revitalization of a Native American language that has no living speakers to develop teaching materials (written or audiovisual) for use by the Mutsun community in re-acquiring their ancestral language.** Students can be involved in writing the textbook, dubbing movies, etc.

**Qualifications:** LING 201 or LING 210.

2) **Work on speech production and perception (phonetics lab work). How do we understand the speech we hear, even though casual speech often has none of the sounds of the words we think we’re hearing? Students make acoustic measurements of natural and careful speech, or help with perception experiments to look at how listeners process reduced speech.**

**Qualifications:** LING 314. Students who speak Spanish fluently would be especially helpful, but Spanish is not required.

**Professor: Ofelia Zepeda**

**Email:** ofelia@u.arizona.edu

**Projects and interests:**

Work on the Tohono O’odham language spoken in Arizona and northern Sonora, Mexico. I am interested in working on projects with students in any area of O’odham linguistics, language, literature and culture. My primary focus is on applied aspects of language research. My other area of study is in language revitalization and documentation, and I would be interested in working with students wanting to learn more about revitalization through the American Indian Language Development Institute (http://aildi.arizona.edu/), and to work on projects within AILDI as well. I welcome the opportunity to work with students to develop research projects in any of the mentioned areas.

**Frequently asked questions**

**What is the difference between independent study and directed research?**

Independent study can be at all levels (1-499), while directed research is only upper division (3-492a). Independent study is for a Pass/Fail grade, while directed research is for a regular letter grade. They are otherwise basically the same.

**How do I register for either one of those?**

You should first email the professor you would like to work with. You should then take a copy of “independent study proposal form” to them and have them sign it. This form is emailed to the underlying listserv before every semester. (You can also find it online). You should finally take this form to Shayna Walker in Comm 104.