

Juliet B. Weinhold

Speech and Hearing Science

Arizona State University

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EDUCATION

- Ph.D. University of Zurich, Switzerland, 2010, English Linguistics
Dissertation: "Code Switching in School-aged Children: Elicitation and Typology"
- M.A. Kansas State University, 1981, Speech-Language Pathology
Thesis: "Teacher Syntax Addressed to Developmentally Disabled and Non-disabled Preschool Children"
- B.A. UCLA, 1978, Linguistics and Psychology, with Specialization in Diversified Liberal Arts
magna cum laude.

TEACHING EXPERIENCE –

- F 2022 - present Arizona State University, Clinical Professor
Same course load as previous rank
- F 2018- Su 2022 Arizona State University, Clinical Associate Professor
SHS 250 – Introduction to Phonetics
SHS 310 - Anatomical and Physiological Bases for Speech
SHS 375 - Speech Science
SHS 465 – Speech/Language Acquisition
SHS 565 – Speech/Language Acquisition and Disorders
Course design, materials, instruction and grading
Supervision of Student Success Lab, providing hands-on access and virtual lab experience in order to augment undergraduate learning.
- F 2014- Su 2018 Arizona State University, Clinical Assistant Professor
SHS 250 – Introduction to Phonetics
SHS 310 - Anatomical and Physiological Bases for Speech
SHS 375 - Speech Science
SHS 465 – Speech/Language Acquisition
Course design, materials, instruction and grading
Supervision of Student Success Lab
- F 2011 – Su 2014 Arizona State University, Senior Lecturer.
SHS 250 – Introduction to Phonetics
SHS 310 - Anatomical and Physiological Bases for Speech
SHS 375 - Speech Science
Course design, materials, instruction and grading
Organization of Student Success Lab, designed to provide hands-on access and virtual lab experience in order to augment undergraduate learning.

- Su 2006 - Su 2011 Arizona State University, Faculty Associate
SHS 250 - Introduction to Phonetics.
Course design, materials, all instruction and grading.
SHS 588 – Spanish Language Acquisition, (guest lectures on code-switching).
- F 1980 - Sp 1981 Kansas State University, Teaching Assistant: English as a Second Language.
Instructed international students who had failed the TOEFL.
- F 1979 - Sp 1980 Kansas State University, Teaching Assistant: Introduction to the Study of Language.
Course design, all instruction and grading for introductory linguistics course.
- F 1978 – Sp 1979 Kansas State University, Teaching Assistant: Oral Communication.
Taught a section of required public speaking course; lectures and grading.

TEACHING EXPERIENCE – Mentoring

- Fall 2018 - present Mentored 7 Barrett Honors College students;
Second reader 3 additional Barrett students
Mentored 14 Advanced Research Seminar Experience (ARES) students
Mentored 13 graduate TA and 25 undergraduate TA students
- Fall 2019 – present Mentored 6 junior faculty new hires in SHS
- Su 2018 Clinical supervision: orofacial myofunctional disorder (OMD) patients
2 MS students, 2 SLPA student clinicians
- 2014 - 2018 Mentored 4 Barrett Honors College students
- 2012 - 2018 Mentored 6 ARES student researchers
- 2012 – 2018 Mentored 17 graduate TA and 8 undergraduate TA students

TEACHING EXPERIENCE – Professional and Curriculum Development and Improvement

Professional development –

Attended Council of Academic Programs in Communication Science and Disorders (CAPCSD) annual conference, April 2023. Focus on programmatic organization, curriculum, recruitment/retention.
CHS Teaching Academy, Fall 2021 cohort
Attended Academy for Advancement of Myofunctional Sciences (AAMS) virtual convention, Sept 2020, which included pedagogical and research presentations, 40 hours of lecture and inter-professional education. This information was applied and integrated into course lectures.

Curriculum development/improvement:

Created online version of SHS 250 in Fall 2018; condensed to 7.5-week format
Successfully campaigned EdPlus for exception to 7.5-week format, allowing SHS 250 to be offered in Session C (15-week format) to allow better learning success for students, Fall 2019
Created online version of SHS 310 in Fall 2019; condensed to 7.5-week format
Converted immersion courses to ASU Sync in 2020: SHS 250, 310, 375, 465
Participant in redesign of SHS 205 (online format) in Summer 2020
Developed SHS 565 course for post-baccalaureate certificate students, Fall 2021
Redesign of SHS 465 in Spring 2022-Fall 2022 with two colleagues (lead)

Established program-wide universal learning objectives among multiple instructors for each core course in the program, Spring 2021.

Interacted with EdPlus to meet curriculum growth needs for online SHS BS program:

Led program growth from 2 courses to 13 courses between F 2018 - Fall 2021

Monitored waiting lists and created additional sections of full classes; currently 21 sections of 13 courses are offered

Hired 24 Faculty Associates/overload instructors, advocated for TA support

Projected course offerings for online program, Sp 2022 = 26 sections (13 courses)

SERVICE and Administration – Departmental/CHS

Search committee co-chair:

Lecturer in SHS, successful hire of Dr. K. Jakob Patten in Fall 2019

Lecturer in SHS, unsuccessful search, Summer 2020

Clinical Assistant Professor in SHS, successful hire of Dr. Laurel Bruce, Dec 2020

Lecturer in SHS, successful hire of Dr. Dan Bos in Fall 2021

Lecturer in SHS, unsuccessful search, Spring 2022

Lecturer in SHS, successful hire of Norma Rodriguez in Fall 2022

Program Director, Bachelor's degree in Speech and Hearing Science, 2018 - present

Curriculum development and UOEEE annual reviews

University Academic Program Review UG chair, Fall 2020-Sp 2021

Course scheduling, faculty teaching assignments, TA/GSA assignments

Hiring faculty associates as needed to cover courses

Program Director, new Online program bachelor's degree in Speech and Hearing Science, 2018 – present

Program development, curriculum development, course development

Interfacing with EdPlus: coordination of SHS with online format, advisors, marketing

Hiring faculty, creation of additional sections to meet demand for rapidly growing program

Program Director, Post-Baccalaureate Certificate in Communication Sciences and Disorders, 2015 – present

Curriculum development and revision, annual UOEEE reviews

Admissions committee (annual cohort averages 25 students)

Retention and morale support, preparation for graduate application

Selection committee, SLPA certificate program

Sid Bacon Scholarship Award committee, chair

Undergraduate committee chair, 2014 – 2018, member 2011-2014

Curriculum committee, 2013 - present

Advisor to post-baccalaureate students (leveling classes), 2011 - 2015

Coordinator, Student Success Lab (academic support for undergraduates, virtual lab, TA supervised experiences), 2012 - present

SERVICE – University

Academic senator for SHS, Fall 2015 – Fall 2018

Senate subcommittee for University Services and Facilities, Fall 2016 – Fall 2018

CHS representative to University Graduate Council, 2013 - 2016

OTHER SERVICE – Academic/Community

Letters of recommendation for graduate admission - average of 38 students/year

Doctoral committee member for

Laurel Bruce, SHS, graduated 2020

Jeremy Ruth, Music, graduated 2019

Presentation at the Interprofessional Education Symposium, AT Still University, May 2019

Reviewer for *Clinical Phonetics (5th Ed.)* textbook by Shriberg, Kent, McCallister & Preston (Pearson, 2019).

Reviewer for *Clinical Management of Speech Sound Disorders: A Case-Based Approach*, (Jones & Bartlett Learning, 2019).

CHS Innovation Quarter presenter, December, 2020

CHS Teaching peer reviewer for Dr. Elizabeth Kizer, Fall 2020

Creator and performer, COVID Carol video, Spring 2020

SERVICE - Research

IRB approved projects, Primary Investigator:

Study 00017901: OMD, Auditory Perception and Speech Production in Adults - current

Study 00001800: OMD and Articulation Errors in College Students – 2014-2023.

Study 00001430: Developmental Acoustic Analysis of Late-Acquired Speech Sounds – current

Study 1309009607: Stimulation Craft Book for children Generalizing Correction of Speech Disorders – 2013-2021, currently inactive

Study 00005000: Coarticulation Study – 2016-2017, completed

Study 1301008722: Efficacy of Age-Normative Placement Standards /r/ - 2013-2015, completed.

Proposal: American Rescue Plan Act: SPARK – SHS Providing Articulation Resources for Kids, co-author, submitted Summer 2021, not funded.

Presentation of 5 posters and one seminar at external conferences since last promotion; supervised 11 internal student presentations (posters or thesis defenses)

Presentation of 22 posters, 6 talks prior to most recent promotion at ASU, 1985-2018

PUBLICATIONS

Bruce, L., Lynde, S., Weinhold, J., and Peter, B. (2018) A team approach to response to intervention for speech sound errors in the school setting. *Perspectives of the ASHA Special Interest Groups SIG 16*, Vol 3 (Part 3): 110-119. <https://doi.org/10.1044/persp3.SIG16.110> (invited, peer reviewed)

Gray, S., Pittman, A., and Weinhold, J. (2014). Effect of phonotactic probability and neighborhood density on word learning by preschoolers with typical development and specific language impairment. *Journal of Speech, Language and Hearing Research*. (peer reviewed)

Hubbell-Weinhold, J. (2005). L1 Attrition and recovery: a case study. ISB4: Proceedings of the 4th International Symposium on Bilingualism. ed. James Cohen, Kara T. McAlister, Kellie Rolstad and Jeff MacSwan (1045-1052). Somerville, MA: Cascadilla Press. (proceedings journal; not peer reviewed)

PRESENTATIONS (Underline = undergraduate student, **boldface** = graduate student, *italics* = post-doc)

Weinhold, J. and Kreisman, B. (April 2023) "Problem solving and Information Exchange – Undergraduate CSD Programs." **Invited** presentation at the annual conference of the Council of Academic Programs in Communication Science and Disorders, Orlando, FL.

DeOrio, S. and Weinhold, J. (April 2023) "Exploring Contributing Factors to Orofacial Myofunctional Disorder." Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Evans, A. and Weinhold, J. (April 2023) "Acquisition of /r/ and Vowel Context." Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Tenney, D. and Weinhold, J. (April 2023) "Predicting Allophonic Acquisition of /r/." Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Matthews, K. (April 2022) "Exploring the Relationship Between Orofacial Myofunctional Disorder and Speech Production Errors of /s/ and /z/." Barrett Honors Thesis defense presented to SHS faculty and the public, Tempe, AZ. [Supervised student work.]

Schembs, M. and Weinhold, J. (April 2022) "A Longitudinal Analysis of Allophonic Acquisition." Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Weinhold, J. and Conger, S. (November 2021) "Allophonic Variation in Acquisition of /r/." Seminar* at the American Speech Language and Hearing Association (ASHA) annual convention, virtual and Washington DC. *Presentation was also **invited for inclusion** in the *ASHA Learning Pass 2021 ASHA Convention Sessions Series*, which will be available as online continuing education credit for 5 years.

Weinhold, J. and Bizzarri, A. (November 2021) "Postvocalic /r/: Acoustic Evidence of Different Subtypes." Poster presented at the American Speech Language and Hearing Association (ASHA) annual convention, virtual and Washington DC.

Conger, S. (April 2021) "Predicting /r/ Acquisition: A Longitudinal Analysis Using Signal Processing." Barrett Honors Thesis defense presented to SHS faculty and the public via Zoom, Tempe, AZ. [Supervised student work.]

Conger, S. and Weinhold, J. (April 2021) "A Longitudinal Analysis of /r/ Allophonic Acquisition." Poster presented at the Barrett Honors Symposium, ASU, Tempe, AZ, and the College of Health Solutions Research Symposium, Phoenix, AZ.

Weinhold, J. and Matthews, K. (April 2021) "Comparison of Five Test Instruments for the Classification of OMD." Poster and video presentation at the Arizona Speech Language and Hearing (ArSHA) annual conference, virtual.

Matthews, K. and Weinhold, J. (April 2021) "Evaluation of OMD Classification Instruments." Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Bizzarri, A. and Weinhold, J. (April 2021) "Are all Versions of Postvocalic /r/ the Same?" Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Conger, S. and Weinhold, J. (May 2020) "Predicting /r/ Acquisition Using Signal Processing." Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Laughlin, M. and Weinhold, J. (May 2020) "Orofacial Myofunctional Disorders and Pill Swallowing Difficulties." Poster presented at the College of Health Solutions Research Symposium, Phoenix, AZ.

Wasson, S. (May 2020) "Using Acoustic Analysis to Identify Orofacial Myofunctional Disorder in Speakers." Barrett Honors Thesis defense presented to SHS faculty and the public via Zoom, Tempe, AZ. [Supervised student work.]

Weinhold, J., and **Bruce, L.** (November 2019) "Orofacial Myofunctional Disorder in Children With and Without Speech Sound Errors." Poster presented at the American Speech, Language and Hearing Association (ASHA) annual convention, Orlando, FL.

Pennington, A., (April 2019) "Test Instrument, Bolus Size, Multiple Swallows and Ultrasound in the Evaluation of Oral-Stage Swallow." Barrett Honors Thesis defense presented to SHS faculty and the public. [Supervised student work.]

Pennington, A., and Weinhold, J. (April & May 2019) "Development of a Test Instrument for Orofacial Myofunctional Disorder." Poster presented at the Barrett Honors Symposium, ASU, Tempe, AZ., and at the College of Health Solutions Research Symposium, Phoenix, AZ.

Pennington, A., and Weinhold, J. (April 2019) "Bolus Size and Multiple Swallows in the Evaluation of Oral-Stage swallow." Poster presented at the Arizona Speech Language and Hearing (ArSHA) annual convention, Phoenix, AZ.

Hom, R. (2019) "Determining Predictors of Acquisition for /r/ Using Acoustic Signal Processing". Barrett Honors Thesis presented to SHS faculty and the public. [Supervised student work.]

Hom, R., and Weinhold, J. (April & May 2019) "Determining predictors of Acquisition for /r/ Using Acoustic Signal Processing." Poster presented at the Arizona Speech Language and Hearing (ArSHA) annual convention, Phoenix, AZ, the Barrett Honors Symposium, ASU, Tempe, AZ., and at the College of Health Solutions Research Symposium, Phoenix, AZ.

Jagelka, D. (December 2018) "Language-based Interventions Incorporated into Third Grade General Education." Barrett Creative Project defense presented to SHS faculty, Mary Lou Fulton School of Education faculty and the public. [Supervised student work.]

Sandoval, L. Weinhold, J., and **Bruce, L.** (April, 2018) "Signs of OMD in Speech Sound Errors: A Study in Elementary School Children." Poster presented at the Department of Speech and Hearing Science Research day, ASU, Tempe, AZ.

Pennington, A., and Weinhold, J. (April, 2018) "Identifying OMD Using Ultrasound, Video Scoring, Bolus Size and Presence of Multiple Swallows." Poster presented at the Department of Speech and Hearing Science Research day, ASU, Tempe, AZ.

Weinhold, J. and Felling, A. (November, 2017) "Peer Perceptions of College Students With and Without Speech Sound Disorders." Flash course presented at the American Speech Language and Hearing Association (ASHA) annual convention, Los Angeles, CA.

Weinhold, J., **Becvar, B.**, Hirsch, M. and *Wisler, A.* (November, 2017) "Signal Processing Analysis of /r/ - Toward Identifying Acoustic Features that can Predict Acquisition of /r/." Flash course presented at the American Speech Language and Hearing Association (ASHA) annual convention, Los Angeles, CA.

Bruce, L., Peter, B., and Weinhold, J. (November, 2017) Evaluating an RTI model for Late-8 speech sound disorders in the school setting." Poster to be presented at the American Speech Language and Hearing Association (ASHA) annual convention, Los Angeles, CA. **[Meritorious Poster Award]**

Weinhold, J. (October, 2017) "Myofunctional Disorder and Ultrasound." Poster presented at the Fall CHS Research Mixer, Phoenix, AZ.

Weinhold, J. and McKay, M. (October 2017) "Ultrasound Review of Single vs. Multiple Swallows Required to Clear a Bolus: an OMD Indicator?" (Invited) Poster presented at the International Association of Orofacial Myology (IAOM), San Diego, CA. **[Honorable Mention award]**

Hirsch, M. and Weinhold, J. (April, 2017) "Accurate Articulation of /r/: Relationships between Signal Processing Analysis of Speech and Ultrasound Images of the Tongue." Poster presented at the Barrett Celebrating Honors Symposium and again at the Department of Speech and Hearing Science Research day, ASU, Tempe, AZ.

Weinhold, J. and McKay, M. (March, 2017) "Oral Stage Ultrasound: OMD, and Single vs. Multiple Swallows Required to Clear a Bolus." Poster presented at the second Academy of Applied Myofunctional Sciences (AAMS) Congress, Chicago, IL.

Weinhold, J. and Hirsch, M. (November 2016) "Signal Processing Analysis of Adult Production of /r/: Beyond F2 and F3." Poster presented at the American Speech, Language and Hearing Association (ASHA) annual convention, Philadelphia, PA.

Weinhold, J. and McKay, M. (November 2016) "Ultrasound Description of the Oral Swallow: Single vs. Multiple Swallows Required to Clear a Bolus." Poster presented at the American Speech, Language and Hearing Association (ASHA) annual convention, Philadelphia, PA.

Weinhold, J. and Becvar, B. (November, 2015) "Signal Processing Utilization for Developmental Acoustic Analysis of /r/." Poster presented at the American Speech, Language and Hearing Association (ASHA) annual convention, Denver, CO. **[Meritorious Poster Award]**

Weinhold, J. and Stettler, D. (November, 2015) "Orofacial Myofunctional Disorders: What Every SLP Should Know!" Poster presented at the American Speech, Language and Hearing Association (ASHA) annual convention, Denver, CO.

Weinhold, J. (November, 2015) "Signal Processing for Developmental Acoustic Analysis of /r/." Invited lecture presented for SHS departmental "Coffee and Cognition" series.

Weinhold, J. and Stettler, D. (April 2015) Myofunctional Disorders and /s/ and /z/ Misarticulation in College Students." Technical session presented at Arizona Speech Language and Hearing Association Convention, Tempe, AZ.

Weinhold, J. and Merrell, B. (November, 2014) "Why We May be Starting /r/ Too Late: A Pilot Study." Poster presented at the American Speech, Language and Hearing Association (ASHA) annual convention, Orlando, FL.

Gray, S., **Yang, H., Schlesinger, N.,** and Weinhold, J. (June, 2014) "Strengths and Weaknesses of Phonological and Semantic Processing and Word Representations in Preschoolers with Specific Language Impairment." Poster presented at the 35th annual Symposium on Research in Child Language Disorders (SRCLD), Madison, WI.

Gray, S., **Schlesinger, N.,** Weinhold, J. & **Yang, H.** (November, 2013) "Effect of Phonological Primes in Preschoolers with Typical Development & Specific Language Impairment." Poster presented at ASHA Convention, Chicago.

Lymer, W., and Weinhold, J. (November, 2013) "Clinical Impressions of SLPs Regarding Placement Criteria & Remediation of /r/." Poster presented at ASHA Convention, Chicago.

Gray, S., **Yang, H.,** Brinkley, S. and Weinhold, J. (June, 2012). "Phonological and Semantic Priming Effects on Picture Naming by Preschoolers with Typical Development and Specific Language Impairment." Poster presented at the 33rd annual Symposium on Research in Child Language Disorders (SRCLD), Madison, WI.

Weinhold, J. (November, 2011). "Code Switching in L2 Learners: Typical and Atypical Profiles." Seminar presented at the American Speech Language and Hearing Association (ASHA) annual convention, San Diego, CA.

Gray, S., Weinhold, J., Brinkley, S., and Xu, Y. (November, 2011). "Effect of Retrieval Cues & Phonotactic Probability on Word-Learning." Poster presented at the American Speech, Language and Hearing Association (ASHA) annual convention, San Diego, CA.

Gray, S., Brinkley, S., and Weinhold, J. (June, 2011). "Phonological Word Form Representations of Preschoolers with SLI." Poster presented at the 32nd annual Symposium on Research in Child Language Disorders (SRCLD), Madison, WI.

Brinkley, S., Williams, S., Matute, R., and Weinhold, J. (November, 2009). "Research Project Management: Divine Design, Nuts & Bolts, and Discussion." Seminar presented at the American Speech Language and Hearing Association (ASHA) annual convention, New Orleans, LA.

Hubbell-Weinhold, J. (November, 2008). "Code Switching Patterns in School-aged Multilingual Children." Poster presented at the American Speech Language and Hearing Association (ASHA) annual convention, Chicago, IL.

Hubbell-Weinhold, J. (June, 2008). "Elicitation of Code Switching in Multilingual School-aged Children." Poster presented at the 29th Symposium on Research in Child Language Disorders (SRCLD), Madison, WI.

Hubbell-Weinhold, J. (April, 2003). "L1 Attrition and Recovery: a Case Study." Poster presented at the International Symposium on Bilingualism – 4 (ISB4), Phoenix, AZ.

Hubbell, J. (November, 1985). "Prosodic Features of Non-native Speakers of English." Poster presented at the ASHA annual convention, Washington DC.

PREVIOUS EMPLOYMENT/ CLINICAL EXPERIENCE

- Fall 2009 – Dec 2011 Arizona State University: Project Manager, Treatment of Lexical Deficits (TOLD) Research Project, Department of Speech and Hearing Science, Contact: Dr. Shelley Gray.
- 2007-2009 Visiting Scholar, Arizona State University, Department of Speech and Hearing Science. Contact: Dr. M. Adelaida Restrepo.
- 2007-2009 EBS Healthcare agency. School speech-language pathologist (SLP) in Gilbert, Arizona school district. Elementary level; diagnosis, consultation and remediation.
- 2006 Kyrene school district, Tempe, AZ. Long term substitute SLP, middle school level: diagnosis, consultation and remediation.
- 1997-2002 Private practice, Zumikon, Switzerland. Consultant to bilingual (German/English) and international schools in the Zurich area. Diagnosis, remediation and teacher in-services. Caseload primarily consisted of phonological disorders and language delay/disorder in bilingual children aged 2-12.
- 1995-1997 Private practice, San Marino, CA. Foreign accent modification with adult immigrant clients.
- 1991-1994 Private practice, Austin, Texas. Consultant to preschool and two private elementary schools. Screening, diagnosis and remediation of speech, language and voice disorders. Evaluation of children and adolescents at Shoal Creek Psychiatric Hospital.
- 1983-1986 University of Texas Speech and Hearing Institute, Houston, Texas. United Way agency in a medical setting. Caseload consisted primarily of preschool language delay/disorder. Co-created and directed a program in foreign accent retraining for adults. Supervised graduate students. Conducted occasional bilingual therapy (Spanish) with higher functioning head trauma rehabilitation patients. Supervisor: Carol L. Waryas.
- 1981-1983 Twin Lakes Educational Cooperative, Clay Center, Kansas. Itinerant SLP position serving seven public schools in rural Kansas. Identification, diagnosis, placement and remediation of children with delayed and disordered articulation and/or language skills. Performed pure tone and impedance audiometry; supervised two paraprofessional aides. Supervisor: Ed Kohler. CFY supervisor: Susan Meier.

PROFESSIONAL AFFILIATIONS

Founding member, Academy of Applied Myofunctional Sciences (AAMS), 2015 to present
ASHA member, Clinical Certificate of Competence, 1982 to present
Arizona Speech Language and Hearing Association (ArSHA) member, 2019 - present
Licensed SLP in the State of Arizona, #SLP4437
AAMS subcommittee for Clinical Competency, 2017
Previously licensed in California and Texas
Austin Area Association of Speech Language Pathologists: Secretary 1993, 1994

AWARDS

Faculty Mentor Award, College of Health Solutions, 2023
Nominated, College of Health Solutions Mentoring award, 2019
Nominated, College of Health Solutions Teaching award, 2019
Meritorious poster recognition, ASHA Conventions, 2015, 2017
Honorable Mention poster award, International Association of Orofacial Myology (IAOM) convention, Spring 2017
College of Health Solutions Commencement Marshal, Spring 2015
ASHA award for continuing education (ACE), 2009, 2013, 2015
Course completion by the Academy of Orofacial Myofunctional Therapy (AOMT), 2013, 2017
Nominated, Outstanding Lecturer or Instructor Award, ASU College of Letters and Sciences, 2012
Student Travel Award, Symposium on Child Language Disorders, June 2008
Chi Omega Alumni Scholarship Award, Pasadena, CA, 1978

Updated: June 2023