

# Dr. Adrienne L. Brundage

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## ***Education***

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Texas A&M University  
**PhD, Entomology 2012**

California State University, San Jose  
**Masters of Science, Organismal Biology 2007**

California Polytechnic State University, San Luis Obispo  
**Bachelor of Science, Plant Protection Sciences 1999**  
**Minors: Theater and Music**

**Dissertation:** Fitness effects of colonization time of *Chrysomya rufifacies* and *Cochliomyia macellaria*, and their response to intra- and inter-specific eggs and egg associated bacteria

**Thesis:** Distribution and Abundance of Forensically Important Flies in Santa Clara County: A two year survey and analysis of Calliphoridae species collected in three habitats.

**Curriculum Highlights:** Insect Physiology, Acarology, Ecology of Insects, Taxonomy of Immature Insects, Microbial Methods, Insect Ecology, Acarology, Seminar in Advanced Biology: Organismal Biology, Seminar in Advanced Biology: Molecular and Microbiology, Introduction to Forensic Investigation, Principles of Crime Scene Investigation, Advanced Crime Scene Investigation, Forensic Anthropology, Advanced Human Anatomy, Evolution, Statistics for Research, Molecular Ecology, Microbial Physiology

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## ***Publications***

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**Brundage, A.** and J.Y. Honda. 2011. Seasonal and habitat abundance and distribution of some forensically important blow flies (Diptera: Calliphoridae) in Central California. *Forensic Science International*. 212 (1-3): 115-120

Honda, J.Y., **A. Brundage**, C. Happy, and S.C. Kelly. 2008. New records of carrion feeding insects collected on human remains. *The Pan-Pacific Entomologist*. 84(1): 29-32

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## ***Forensic Entomological Casework***

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Lead Entomological investigator, F.L.I.E.S. Facility, Cases 036, 039, 040 insect identification, evidence interpretation, and time of colonization estimation, report preparation, 2009-2011

Assistant Entomological Investigator under Dr. Jeff Tomberlin, F.L.I.E.S. Facility, Cases 028, 029, 030, 031, 032, 037, 038 insect identification, evidence interpretation, time of colonization estimation, report preparation 2008-2009

Reviewer, Cases 034, 035, 050, larval identification, evidence interpretation, degree day calculation, time of colonization estimation, review of submitted report, 2009-2010

Lead Entomological Investigator under Det. Ronald Bruess; interpretation of entomological evidence, Santa Clara County Sheriff's Office, 2003-2007

Lead Entomological Investigator; interpretation of entomological evidence, Santa Clara County Medical Examiner's office, 2004

Assistant Entomological Investigator under Dr. Jeffery Y. Honda, larval rearing and care, identification and interpretation of entomological evidence, Santa Clara County, 1999-2004

## ***Professional Positions***

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Forensic Case Coordinator, Texas A&M Forensic Laboratory for Investigative and Entomological Sciences (F.L.I.E.S. Facility). 2009-2011

Coordination of incoming and outgoing evidence, communication with law enforcement, organization and structuring of lab-wide evidence protocols

Assistant to Forensic Entomologist Dr. Jeffery Tomberlin, 2008-2012

Assist forensic entomologist with evidence collection and management; supervise larval rearing and care; assist in post mortem interval estimation

Forensic Entomology Intern, Santa Clara County Sheriff's Office, 2007

On call as local forensic entomologist; available to collect entomological evidence at crime scenes and autopsy; analysis of entomological evidence and completion of report including post mortem interval estimation

Training Supervisor, Entomological Evidence Recovery, 2006-2007

Design and implementation of all-day training seminars targeted at crime scene investigators and other sheriff's office personnel; assist forensic anthropologist during clandestine grave removal seminars

Forensic Entomology Intern, Santa Clara County Medical Examiner's Office, 2004

On call as local forensic entomologist; available to assist during autopsy of severely decomposed remains; collection of entomological evidence during autopsy

Assistant to Forensic Entomologist Dr. Jeffery Y. Honda, 1999-2005

Assist forensic entomologist with evidence collection and management; supervise larval rearing and care; assist in post mortem interval estimation

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## ***Presentations***

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### ***Professional Associations***

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-**Brundage, A.L.** and J.K. Tomberlin. 2011. Effects of Temporal Priority on Interactions Between *Cochliomyia macellaria* and *Chrysomya rufifacies* (Diptera: Calliphoridae) Larvae on a Carrion Resource. Entomological Society of America Annual Meeting. Reno, NV.

-**Brundage, A.L.** and J.K. Tomberlin. 2011. Effects of Temporal Priority on Interactions Between *Cochliomyia macellaria* and *Chrysomya rufifacies* (Diptera: Calliphoridae) Larvae on a Carrion Resource. North American Forensic Entomological Association Annual Meeting. College Station, Texas.

-**Brundage, A.L.** and J.K. Tomberlin. 2011. The effects of priority colonization of carrion on two forensically important blow fly (Diptera: Calliphoridae) species. Forensic Entomology and its Implications in Medicine. Kuala Lumpur, Malaysia.

-**Brundage, A.L.** and J.K. Tomberlin. 2009. Attraction of two forensically important fly species: *Chrysomya rufifacies* (Macquart) and *Cochliomyia macellaria* (Fabricius) to inter- and intraspecific eggs. American Academy of Forensic Sciences Annual Conference. Denver, Colorado.

-**Brundage, A.L.** and J.Y. Honda. 2008. Seasonal Distribution and Abundance of Forensically Important Flies in Santa Clara County North American Forensic Entomological Association Conference. Atlantic City, New Jersey.

-**Brundage, A.L.** and J.Y. Honda. 2004. Seasonal Distribution of Forensically Important Flies in Santa Clara County California Association of Criminalists Spring Conference. San Mateo, California.

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### ***Graduate Student Presentations***

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-**Brundage, A.L.** and J.K. Tomberlin. August 2010. The effects of priority colonization of carrion on two forensically important blow fly (Diptera: Calliphoridae) species. Thirteenth Annual Graduate Student Forum, Texas A&M University

-**Brundage, A.L.** and J.K. Tomberlin. August 2009. Attraction of two forensically important fly species: *Chrysomya rufifacies* (Macquart) and *Cochliomyia macellaria*

(Fabricius) to inter- and intraspecific eggs. Twelfth Annual Graduate Student Forum, Texas A&M University

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***Posters at Professional Meetings***

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-**Brundage, A.L.** and J.Y. Honda. 2005. Seasonal Distribution of Forensically Important Flies in Santa Clara County. American Academy of Forensic Sciences Conference. New Orleans, Louisiana

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***Invited Presentations***

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MENSA, Austin Branch, Annual Meeting, "Forensic Entomology: Case studies and Science" Guest Lecture, September 2011

Insects in Society ENTO 322 "Forensic Entomology: Scope and Case Studies" Guest Lecture, August 2011, June 2012

Texas Criminal Defense Lawyers Association, "Forensic Entomology in the Court Room" October 2010

Forensics Sciences FIVS 205 "Forensic Psychology and Psychiatry," "Urban and Stored Products Entomology," "Medico Legal Entomology" Guest Lecturer, September and October 2010

Citizen's Police Academy, "Forensic Entomology: Scope, Evidence Collection, and Evidence Analysis" Invited Expert, August 2010

Fort Worth Medical Examiner's Office, "Forensic Entomology: Scope and Current Research" Invited Expert, August 2009

Biological Student's Association: Veterinary Medicine Branch, "Forensic entomology from a veterinary standpoint" Key Note Speaker, March 2009

Forensic and Investigative Sciences Seminar Series, FIVS 485 "Forensic Entomology Scope and Current Research" February 2009

Texas Criminal Defense Lawyer's Association, "Forensic Entomology and You" October 2008

Forensics Sciences FIVS 205 “The Scope of Forensic Entomology” and “Medico-criminal Entomology” Guest Lecturer, October 2008

General Entomology ENTO 322 General Entomology, The Forensic Entomologist at the Crime scene: How to investigate a crime scene for entomological evidence” Guest Lecturer July 2008

Aggie Summer Institute “Introduction to Forensic Entomology” June 2008

Research Experience for Undergraduates (REU) “Introduction to Forensic Entomology at Texas A&M University” May 2008

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***Professional Associations***

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North American Forensic Entomology Association, Associate Member, 2004-2012

American Academy of Forensic Sciences, Trainee Member, 2003-2012

Gamma Sigma Delta, Invited Member, 2011-2012

Entomological Society of America, Student Member, 1998-2012

Southwestern Entomological Association, Student Member, 2008-2012

Pacific Coast Entomological Association, Student Member, 1999-2007

American Association for the Advancement of Science, Professional Member, 2006-2012

Ecological Society of America, Student Member, 2008-2012

Entomology Graduate Student Organization, Student Member 2008-2012

National Science Teachers Association, Student Member 2010-2012

Organization of Professional Academic Lecturers plus Other Non-Tenure Track Faculty, Member 2008-2012

National Scholar’s Honor Society, Member 2008-2012

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## ***Service***

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Secretary, North American Forensic Entomological Association, 2009-2012

Manuscript Peer Review, Entomologica, Journal of Medical Entomology, Landscape and Urban Planning, Journal of Forensic Sciences 2008-2012

Faculty supervisor, Blinn Forensic Science Club, 2012

Member, Planning Committee, North American Forensic Entomological Association Annual Conference, 2011

Vice President, Entomological Graduate Student Organization, 2009-2010

Graduate Student Representative, Department Head Search Committee, 2009-2010

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## ***Workshops***

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Science Educator Training Conference, Blinn College, July 2012

Development and presentation of classroom appropriate materials designed to introduce basic scientific concepts to middle and high school students through the use of forensics.

Forensic Science Educator Training Conference, Sam Houston State University, August 2010

Development and presentation of one full-day seminar on forensic entomology designed to train middle and high school teachers to incorporate entomology into their science class rooms. Design of classroom appropriate material, including handouts, readings, and lab activities.

Texas 4H Entomology Training, February 2010 -2012

Invited to present beginning entomological concepts to students preparing for the 4H entomology exam

Youth Adventure Program General Forensics Workshop, July 2008-2011

Design and presentation of a one week educational camp for 24 advanced high school students focusing on several aspects of forensic science. Duties included organization and management of volunteer teachers, writing and preparation of labs and lectures, organization of supplies, and organization of off-site field trips. Topics included best practices in forensics, Daubert standards, forensic entomology, observational skills, fingerprinting, blood spatter, tool and tire marks, blunt and sharp force trauma, forensic pathology, forensic chemistry, questioned documents, and general crime scene investigation.

Forensic Entomology Training, Cedar Hill Police Department, December 2009

Organization and presentation of a one day, experience-based training for members of law enforcement. Duties included organization and management of volunteer presenters, writing, preparation, and delivery of presentations and crime scene training for attendees.

Presenter, Leon County Kid's Kamp, June 2009

Organization and presentation of an afternoon of forensics labs geared towards 3rd through 9th graders.

Science Standards Training for K-12 teachers, June 2007

Organization and presentation of a one week workshop for first grade teachers in California. As part of an NSF grant, teachers were trained in the new California science standards. Co-taught with a current first grade teacher, participants were exposed to the general science of botany, given hands-on training in basic botany principles, and provided with ideas for incorporating botany into the first grade classroom.

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### ***Teaching Experience***

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Adjunct Professor, Wildlife Forensic Entomology (ENY 6706) Remote Campus, University of Florida, 2012

Lecturer, Introduction to Forensics (FORS 2440), Nutrition (BIOL 1322), Introduction to Biology (BIOL 1406), Blinn College, 2011-2012

Lecturer, Forensic Entomology (FORS 3392), Baylor University, 2011

Graduate Assistant, Medical Entomology (ENTO 405), Texas A&M University 2011



Graduate Assistant, General Forensic Sciences (FIVS 205) Texas A&M University 2010

Lecturer, Forensic Entomology (ENTO 431, 432), Texas A & M University, 2008-2009

Lecturer, Human Biology (BIO 21), Microbiology (MICRO 20, 101), Human Understanding (BIO 54) San Jose State University, 2005-2007

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### ***Research Experience***

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Research Assistant, Forensic Laboratory of Investigative and Entomological Sciences (F.L.I.E.S. Facility), 2008-2012

Lead Researcher, Mentor and Creator, Undergraduate Entomological Research Experience Program, 2009-2012

Mentor, Undergraduate Research Experience, Summer 2008-2009

Graduate Assistant, San Jose State University, 1999-2005

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### ***Continuing Education***

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Tech Academy Blended Conference, May 2012

Twenty hours of professional development in research based best practices of blended and online learning

Exploring Genetic Diversity: Mapping the Genetic Landscape through Next Generation Sequencing, August 2010

Seminar sponsored by AAAS which detailed genetic techniques including Q-PCR, pyrosequencing, and traditional PCR

Recent Advances in Liquid Chromatography and Mass Spectrometry for Applications in a Variety of Disciplines in the Forensic Sciences, February 2009

General workshop explaining the most commonly used liquid chromatography and mass spectrometry techniques in forensic toxicology

General Lab Safety Training, August 2008

General workshop designed to elucidate hazards, rules and regulations in the normal research lab, and highlight proper lab safety techniques, including

proper response to emergency situations and necessary documentation for reagents and equipment

Teacher's Assistant Safety Training, August 2008

One day program designed to present common hazards in the teaching lab, reinforce rules and regulations, and train assistants to handle emergencies

Forensic Scientists and Criminal Investigations, June 2008

General summary of scientists involved with criminal investigations, including in-service seminars, credentialing, references, background investigations, internships, surface recovery of skeletal remains and clandestine grave exhumations, crime scene behavior, evidentiary procedures, evidence collection, chain of custody, court room demeanor and testimony, and cold case homicide investigations

Engaging Students in Classroom Discussion, January 2008

Workshop focusing on managing successful classroom discussions, stimulating questions, assessing for student learning, probing for deeper thinking, and encouraging participation from all students

Lecturing Well (Teaching Strategies Series Session I), January 2008

Workshop focusing on developing and presenting effective lectures, presented by Texas A&M University Center for Teaching Excellence

Forensic Entomology and Anthropology, February 2005

Workshop moderated by professional forensic anthropologists and entomologists presented at the American Academy of Forensic Sciences annual meeting. Curriculum included basic investigative techniques in entomology and anthropology, case studies, lectures, and discussion

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***Honors and Awards***

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NAFEA Student Presentation Award, Second Place, PhD level, 2011

Awards presented for outstanding research presentations by PhD and non-PhD graduate students during the North American Forensic Entomological Association annual meeting.

Knippling-Bushland-Swahrf Graduate Student Scholarship, 2011

Given to one full time graduate student each year to strengthen research, extension and instructional programs in the area of livestock and wildlife entomology

Student Enhancement and Endowment Scholarship, 2011

A competitive grant based on merit and need given to graduate students in the department of entomology at Texas A&M University to enhance graduate studies through travel, presentation, and professional meetings

Outstanding Graduate Student Award--PhD, Department of Entomology, 2010

Given to one PhD student each year in the department of entomology at Texas A&M University who demonstrates outstanding research and academic achievement

Vice Chancellor's Award in Excellence, Graduate Student Teaching 2009

Given to one graduate student each year who shows outstanding achievement in teaching, stimulation of students to achieve and excel, evidence of respect and affection of students, effectiveness of teaching ability, demonstration of new and innovating approaches to teaching methodology, and participation in professional societies and associations

J.H. Benedict, Sr. Memorial Graduate Student Award 2009

Given to one entomology graduate student each year who shows outstanding academic and extra-curricular achievement

Susan M. Arseven '75 Make-A-Difference Memorial Award 2009

Given to one student at TAMU who shows outstanding academic achievement in the face of challenges

Duncan Scholarship for Outstanding Biology Student 2001

Given to one biology student at SJUS each year that shows outstanding academic achievement

Graduate Assistant Grant 1999-2002

Enterprise Project Student of the Year 1994

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## ***Additional Experience***

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Insect Lab Technician, HotLix Candy Company, 1996

Rear and prepare insects used in candy product; maintain cultures of insects including *Tenebrio molitor* (mealworms), several Gryllidae (crickets), and Tipulidae (crane flies)

Apiary Manager, Cal Poly San Luis Obispo, 1995

Student project, responsible for six month management of campus apiary

Orchard Manager, Cal Poly San Luis Obispo, 1994-1995

Student project, responsible for one year management of campus citrus and avocado orchard, including harvest, pest management, tree replacement, cold management, and harvest sales

Blogger, ForensicEntomologist.com, BugNet, The Bibliophilists, and BioGRE, 2007-2012

Certificate in Pre-hospital Emergency Care, 2007