

# Jean-Paul Pinaud

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- CONTACT INFORMATION 9716 Caminito de la Fada Voice: (858) 337-4230  
San Diego, CA 92124 Office: (858) 534-6146
- RESEARCH INTERESTS Linear control, sensor and actuator selection, deployment of flexible structures, systems design, tendon control of tensegrity structures, theoretical and experimental projects.
- EDUCATION **University of California, San Diego**, La Jolla, California USA  
Ph.D. Candidate, Aerospace Engineering, September 2003 (expected graduation: Summer 2004)
  - Advisor: Robert E. SkeltonM.S., Aerospace Engineering, May 2002  
B.S., Physics with Specialization in Biophysics, June, 1998  
B.S., Animal Physiology and Neuroscience, June, 1998
- AWARDS San Diego Graduate Research Fellowship, 2001-2003
- ACADEMIC EXPERIENCE **University of California, San Diego**, La Jolla, California USA  
*Research Assistant/Graduate Student, Structural Systems and Control Lab* **September, 1998 - present**  
Includes current Ph.D. research, Ph.D. and Masters level coursework and research.  
*Teaching Assistant, Mathematics Department* **September, 1999 - June 2000**  
Duties at various times have included office hours, review sessions, weekly sections, grading exams. Multivariable Calculus.  
*Teaching Assistant, Mechanical and Aerospace Engineering Department* **September, 2003 - present**  
Duties at various times have included office hours, weekly sections, grading. Linear Circuits.
- PUBLICATIONS Skelton, R.E., Pinaud, J.P., Mingori, D.L., Dynamics of the shell class of tensegrity structures. *Journal of the Franklin Institute.*, 338/2-3:255-320, 2001.  
Skelton, R.E., Helton, J.W., Adhikari, R., Pinaud, J.P., Chan, W., *An Introduction to the Mechanics of Tensegrity Structures*. The Mechanical Systems Design Handbook: Modeling, Measurement, and Control, CRC Press, 2001.
- CONFERENCE PRESENTATIONS Pinaud, J.P., Masic, M., Skelton, R.E. 2003. Path planning for the deployment of tensegrity structures. SPIE's 10th Annual International Symposium on Smart Structures and Materials, San Diego, CA, March 2003.  
Skelton, R.E., Helton, J.W., Adhikari, R., Pinaud, J.P., Chan, W., *An Introduction to the Mechanics of Tensegrity Structures*. Proceedings of the 40th IEEE Conference on Decision and Control, Orlando, Florida, December 2001.
- PROFESSIONAL EXPERIENCE **The Salk Institute for Biological Studies**, La Jolla, California USA  
*Molecular Neurobiology Lab, Laboratory Assistant/Intern* **1995 -1997**  
Duties included sectioning techniques of brain tissue, microscopy and imaging, animal surgical techniques, and various molecular biology techniques.
- SKILLS
  - Matlab, L<sup>A</sup>T<sub>E</sub>X, C, LINUX, numerical linear algebra, numerical methods for differential equations, robust and nonlinear control methods, dynamic and static simulation software (TensegritySoft Co-developer), sparse nonlinear optimization software, common Windows applications and presentation software.
  - Fluent in English, Spanish. (U.S. Citizen)