

CURRICULUM VITAE

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Education

- Post-Doctoral Molecular Systematics, University of Illinois at Chicago, 1992-1993.
- Ph.D. Biology/Ichthyology, University of Illinois at Chicago and the Field Museum of Natural History, 1992.
- Post-Masters Systematic Ichthyology, City University of New York and the American Museum of Natural History, 1981-1983.
- M. A. Biology, Herbert H. Lehman College, New York, 1981.
- B. A. Biology & History, Herbert H. Lehman College, New York, 1978.

Employment History

- 2000-Present Loyola University Chicago: Associate Professor, Department of Biology.
- 1994-2000 Loyola University Chicago: Assistant Professor, Department of Biology.
- 1992.1994 Loyola University Chicago: Teaching Associate, Department of Biology.
- 1984.1992 Roosevelt University: Adjunct Lecturer, Department of Biology.
- 1984.1987 Field Museum of Natural History: Collection Manager, Division of Fishes, Department of Zoology.
- 1982.1983 City College of New York: Adjunct Lecturer, Department of Biology.

Uncompensated Appointments

- 1992-Present Research Associate: Field Museum of Natural History, Chicago, Illinois, Department of Geology.

Academic Awards and Grants

External Funding:

- 2002 National Science Foundation, Systematic Biology. \$6,000.00.REU DEB 0128794
- 2001 National Science Foundation, Systematic Biology. \$121,404.00.DEB 0128794
- 2000 Conselho Nacional de Desenvolvimento Cientifico e Tecnologico (CNPQ) (with M. dePinna). \$93,000.00 U.S. 99/0978-6.
- 1999 National Science Foundation, Systematic Biology (with M. dePinna). \$67,120.00. an additional \$10,000.00 as incentive funds from FAPESP. Total award \$77,120.00. DEB-9903533.
- 1999 Fundacao de Amparoa Pesquisa no Estado de São Paulo (FAPESP) (with M. dePinna). \$30,000.00 U.S. 99/09631-4.
- 1998 Totogany Creek Fund for Research of Vertebrate Morphology. \$3,000.00
- 1997 German National Science Foundation. \$2,500.
- 1995 Gannon Center Research Grant. Systematics and Evolutionary Biology. \$5,000.00
- 1993 German National Science Foundation. \$2,000.00.
- 1991 Lester Armour Graduate Fellowship, Field Museum of Natural History. \$10,000.00.
- 1989 University of Illinois at Chicago Graduate Student Grant. \$1,500.00.
- 1983 Lerner-Grey Grant, American Museum of Natural History. \$4,000.00.

Competitive Internal Funding:

- 2002 EVOKE Program, Loyola University Chicago. \$1,000.00
- 2002 Research Support Grant, Loyola University Chicago. \$2,500.00.
- 2001 Research Support Grant, Loyola University Chicago. \$2,000.00.
- 1998 University Research Leave, Loyola University Chicago. Leave with pay.
- 1998 Summer Stipend Award, Loyola University Chicago. \$6,000.00.
- 1997 Research Support Grant, Loyola University Chicago. \$1,500.00.
- 1997 Research Support Grant, Loyola University Chicago. \$1,500.00.
- 1996 Research Support Grant, Loyola University Chicago. \$1,200.00.

- 1996 Summer Stipend Award, Loyola University Chicago. \$6,000.00.
- 1995 Summer Stipend Award, Loyola University Chicago. \$6,000.00.
- 1994 Research Support Grant, Loyola University Chicago. \$1,200.00.

Special Awards and Nominations

- 1991 Lester Armour Fellowship. Field Museum Natural History.
- 1993 Loyola Teaching Excellence Award.
- 1994 Nominated by Loyola University for the NSF Presidential Faculty Fellowship.
- 1994, 1997, 2002 Nominated for Loyola University's Sujack Teaching Award.
- 2002 von Humboldt Fellowship. Fellowship declined.

Publications

(note, maiden name = DeFino)

Peer Reviewed Publications:

- Dingerkus, G. and T. DeFino. 1983. A revision of the Orectolobiform shark family Hemiscyllidae (Chondrichthys: Seleche). Bulletin of the American Museum of Natural History. 176(1): 1-93.
- Grande, T. 1988. Habitat and diet selection of sympatric species of fundulines in Long Island Sound. Northeastern Environmental Society, Special Publication.
- Grande, T. 1992. Higher interrelationships of fossil and Recent gonorynchiform fishes. University of Illinois at Chicago doctoral dissertation.
- Grande, T. 1994. Phylogeny and paedomorphosis in an African family of freshwater fishes (Gonorynchiformes: Kneriidae). Fieldiana: Zoology. 1459(78): 1 – 20.
- Grande, T. and F. Poyato-Ariza. 1995. A cladistic analysis of fossil and living gonorynchiform fishes. Geobios. 19: 197 – 199.
- Grande, T. 1996. The interrelationships of fossil and Recent gonorynchid fishes and the inclusion of Two Cretaceous taxa from Israel. *In*: Arratia, G. and G. Viohl (eds.). Mesozoic Fishes: Systematics and Paleoecology. pp. 296 – 315. Verlag Pfeil.
- Grande, T. and B. Young. 1997. The development of the opercular apparatus in *Kneria wittei* with comments on its possible function. Acta Zoologica. 78(2): 145 – 162.

- Grande, T. and F. Poyato-Ariza. 1999. Phylogenetic relationships of fossil and Recent Gonorynchiform fishes (Teleostei: Ostariophysii). *Zoological Journal of the Linnean Society*. 125(2): 197 – 238.
- Grande, T. 1999. Revision of the genus *Gonorynchus* Scopoli, 1777 (Teleostei: Ostariophysii). *Copeia*. (2): 453 – 469.
- Roberts, C. D. and T. Grande. 1999. The sandfish, *Gonorynchus forsteri*, (Gonorynchidae) from bathyal depths off New Caledonia, with notes on New Zealand specimens. CYBIUM. Special addition. Proc. 5th Indo-Pacific Conference. 195 – 205.
- Grande, T. 1999. Distribution patterns and historical biogeography of gonorynchiform fishes (Euteleostei: Ostariophysii). *In*: Arratia, G. and H.-P. Schultze (eds.). *Mesozoic Fishes - Systematics and Stratigraphy*. pp. 425 – 444. Verlag Pfeil.
- Grande, L. and T. Grande. 1999. A new species of †*Notogoneus* (Teleostei: Gonorynchidae) from the Upper Cretaceous Two Medicine Formation of Montana, with a discussion of the Cretaceous record of freshwater fishes of North America.. *Journal of Vertebrate Paleontology*. 19(4): 612 – 622.
- Grande, T., J. Norman, and M. Ashley. 2000. The use of *Chanos chanos* (Ostariophysii: Gonorynchiformes) as a basal ostariophysian based on the molecular analysis of the cytochrome *b* gene. *Journal of Fish. Biology*. Special Publication. 7: 23 – 28.
- Grande, T. and J. Shardo. 2002. Morphology and development of the postcranial skeleton in the channel catfish *Ictalurus punctatus* (Ostariophysii: Siluriformes). *Fieldiana*. 1518(99): 1-30.
- Braun, C. and T. Grande. 2002. Evolution of the octavolateralis system: a phylogenetic assessment. *Bioacoustics*. 12 (2002): 118 –120.
- Grande, T. and C. Braun. 2002. Evolution of the Weberian apparatus. *Bioacoustics*.12 (2002): 120-122.
- dePinna, M. and T. Grande. accepted. Morphology of the anterior vertebral region in pristigasteroid fishes (Teleostei, Clupeomorpha) and its phylogenetic implications. *Zoological Journal of the Linnean Society*.
- Grande, T. and dePinna, M. in press. The evolution of the Weberian apparatus: a phylogenetic perspective. *In*: Arratia, G. and H.- P. Schultze (eds.). *Mesozoic Fishes: Systematics and Biodiversity*.
- DePinna, M. and T. Grande. in review. Ontogeny of the accessory neural arch in pristigasteroid Clupeomorphs and its bearing on the homology of the otophysan claustrum (Teleostei). *Copeia*.
- Grande, T. and B. Young. in review. The ontogeny of the Weberian apparatus in the Zebrafish *Danio rerio* (Ostariophysii: Cypriniformes), with comments on the homology of Otophysan Weberian ossicles. *Fieldiana*.

Publications in Preparation:

- Grande, T., Q. Chan and H. Laten. in prep. Species evaluation and interrelationships of the genus *Esox* (Salmoniformes) based on morphological and molecular characters. Zoological Journal of the Linnean Society.
- Grand, T. and L. Grande. in prep. Comparative morphology and development of *Gonorynchus* and †*Notogoneus* species (Ostariophysi: Gonorynchiformes), with comments on the evolution and historical biogeography of the Gonorynchidae. Journal of Vertebrate Paleontology
- Braun, C, and T. Grande. in prep. Evolution on peripheral mechanisms for the enhancement of sound reception. Book Chapter in Fish Bioacoustics.
- Poyato-Ariza, F. J., M. Chardon and T. Grande. Lower Ostariophysans: Morphology, Evolution and Historical Biogeography. Book.

Additional Publications:

- Grande, T. accepted. Gonorynchiformes: Milkfish and Their Relatives. Grizimek's Animal Life Encyclopedia, Book Chapter. Schlager Group Inc.
- McCarthy, J. and T. Grande. 2000. Science & Faith Examined. Loyola Magazine. 2000: 22 – 25.
- Grande, T. and J. Norman. The complete cytochrome *b* sequence for *Chanos chanos* (Teleostei: Chanidae). GenBank, Accession number L26056.

Published Abstracts (since 1989):

- Grande, T. 1989. Revision of the fossil genus Tharrhias with reference to the questionable monophyly of the family Chanidae. American Society of Ichthyologists and Herpetologists.
- Grande, T. 1991. Higher Phylogenetics of Recent and fossil gonorynchiform fishes. American Society of Ichthyologists and Herpetologists.
- Grande, T. 1993. The interrelationships of fossil and Recent gonorynchiform fishes and the inclusion of two Cretaceous taxa from Israel. International Congress of Mesozoic Fishes.
- Grande, T. 1994. Alternative methods for teaching anatomy. Illinois State Academy of Sciences.
- Grande, T. 1995. Revision of the freshwater gonorynchiform family Kneriidae. American Society of Ichthyologists and Herpetologists.
- Grande, T. and W. Jones. 1995. Ontogenetic development of the opercular apparatus of *Kneria wittei* With comments on a possible acoustic function. American Society of Ichthyologists and Herpetologists.
- Poyato-Ariza, F. and T. Grande. 1995. Phylogenetic interpretations of nominal fossil gonorynchiform fishes. International Symposium of Lithographic Limestone, Paris, France.

- Ricken, J. and T. Grande. 1995. Co-development of the lateral line and dermal bones in *Alosa pseudoharangus*. Illinois State Academy of Sciences.
- Grande, T. and D. Bardack. 1996. A new elopomorph from the Eagle Ford Formation near Arlington Texas. *Journal of Vertebrate Paleontology*.
- Grande, T. 1997. Revision of the Genus *Gonorynchus* (Ostariophysi: Gonorynchiformes) with Comments on its developmental morphology. American Society of Ichthyologists and Herpetologists.
- Kuzminska, A. and T. Grande. 1997. Morphological development of the Weberian apparatus in the zebrafish *Danio rerio* (Ostariophysi: Cyprinidae). American Society of Ichthyologists and Herpetologists.
- Grande, T. 1997. Interrelationships and historical biogeography of ostariophysan fishes with an emphasis on the Gonorynchiformes (Actinopterygii: Teleostei). *Journal of Vertebrate Paleontology*.
- Grande, T. 1998. Morphology, systematics and biogeography of the family Gonorynchidae (Ostariophysi: Gonorynchiformes). *American Zoologist*.
- Grande, T. 1998. Comparative anatomy of the anterior vertebral region in clupeomorphs and Ostariophysans, as an indicator of a sister-group relationship. *American Zoologist*.
- Lapsys, L. and T. Grande. 1998. Morphological development of the postcranial skeleton in the zebrafish. American Society of Ichthyologists and Herpetologists.
- Grande, T. and J. Shardo. 1999. Morphology of the postcranial skeleton of the channel catfish *Ictalurus punctatus*. American Society of Ichthyologists and Herpetologists.
- Grande, T. 1999. Evolutionary skull patterns of ostariophysan fishes. *Journal of Vertebrate Paleontology*.
- Shardo, J. and T. Grande. 2001. Morphology and the development of the postcranial axial skeleton of The American shad, *Alosa sapidissima*. *American Zoologist*.
- dePinna, M. and T. Grande. 2001. Weberian-like modifications in the anterior vertebrae of Pristigasteroids (Teleostei, Clupeomorpha). American Society of Ichthyologists and Herpetologists.
- DePinna, M. and T. Grande 2002. Anterior-vertebral characters informative about relationships among clupeomorphs, gonorynchiformes and otophysans (Teleostei). American Society of Ichthyologists and Herpetologists.
- Chan, Q., T. Grande and H. Laten. 2002. Species level relationships of extant esocids based on morphological and molecular data. American Society of Ichthyologists and Herpetologists.

Talks and Papers Presented Since 1993

- Grande, T. 1993. The interrelationships of fossil and Recent gonorynchiform fishes and the inclusion of two Cretaceous taxa from Israel. International Congress of Mesozoic Fishes. Germany. (Invited Talk).
- Grande, T. 1993. The biological significance of race. Radical Scholars Conference, Loyola University Chicago.
- Grande, T. 1993. The phylogenetic interrelationships of lower euteleostean fishes. Loyola University Chicago, Biology Departmental Seminar Series.
- Grande, T. 1994. Origin of ostariophysan fishes. University of Massachusetts, Amherst, Biology Department Seminar. (Invited Seminar).
- Grande, T. 1994. Alternative methods for teaching anatomy. Illinois State Academy of Sciences.
- Grande, T. 1995. Revision of the freshwater gonorynchiform family Kneriidae. American Society of Ichthyologists and Herpetologists. Edmonton, Canada.
- Poyato-Ariza, F. and T. Grande. 1995. History of ostariophysan research. International Congress on Early Vertebrates and Lower Vertebrates. Paris, France.
- T. Grande and F. Poyato-Ariza. 1995. Phylogenetic interpretations on nominal fossil gonorynchiform fishes. International Symposium on Lithographic Limestone. Paris, France (Invited Talk).
- Ricken, J. and T. Grande. 1995. Co-development of the lateral line and dermal bones in *Alosa pseudoharanguis*. Illinois State Academy of Sciences.
- Grande, T. 1996. A new elopomorph from the Eagle Ford Formation near Arlington Texas. Society of Vertebrate Paleontology.
- Grande, T. 1997. Interrelationships and historical biogeography of ostariophysan fishes with an emphasis on the Gonorynchiformes (Actinopterygii: Teleostei). Society of Vertebrate Paleontology. Chicago, Illinois. (Invited Talk).
- Grande, T. 1997. Distribution patterns and historical biogeography of ostariophysan fishes (Teleostei). International Congress on Mesozoic Fishes. Germany. (Invited Talk).
- Grande, T. 1997. Revision of the Genus *Gonorynchus* (Ostariophysi: Gonorynchiformes) with Comments on its developmental morphology. American Society of Ichthyologists and Herpetologists. Seattle, Washington.
- Kuzminska, A. and T. Grande. 1997. Morphological development of the Weberian apparatus in the zebrafish *Danio rerio* (Ostariophysi: Cyprinidae). American Society of Ichthyologists and Herpetologists.
- Roberts, C. and T. Grande. 1997. Distribution patterns and new geographic account of the sandfish *Gonorynchus forsteri*. Fifth Indo-Pacific Fish Conference, Australia.
- Grande, T. 1998. Morphology, systematics and biogeography of the family Gonorynchidae (Ostariophysi: Gonorynchiformes). Society of Integrative Comparative Biology, Boston,

Massachusetts.

- Grande, T. 1998. Comparative anatomy of the anterior vertebral region in clupeomorphs and ostariophysans as an indicator of a sister-group relationship. Society of Integrative and Comparative Biology, Boston, Massachusetts. (Invited Talk).
- Lapsys, L. and T. Grande. 1998. Morphological development of the postcranial skeleton in the zebrafish. American Society of Ichthyologists and Herpetologists.
- Grande, T. 1998. Heterochrony in fishes, and its impact on phylogenetic reconstruction. Field Museum of Natural History Seminar Series. (Invited Talk).
- Grande, T. and J. Shardo. 1999. Morphology of the postcranial skeleton in the channel catfish *Ictalurus punctatus*. American Society of Ichthyologists and Herpetologists. Pennsylvania.
- Grande, T. 1999. Evolutionary skull patterns of ostariophysan fishes. Society of Vertebrate Paleontology. Special Symposium on Fish Skulls, Denver. Colorado. (Invited Talk).
- Shardo, J. and T. Grande. 2001. Morphology and the development of the postcranial axial skeleton Of the American Shad, *Alosa sapidissima*, Society of Integrative and Comparative Biology, Chicago, Illinois.
- Braun, C. and T. Grande. 2001. Evolution of the octavolateralis system. Fish Bioacoustics: Sensory Biology, Behavior and Practical Applications, Evanston, Illinois. (Invited Talk).
- Grande, T. and C. Braun. 2001. Evolution of the Weberian apparatus. Fish Bioacoustics: Sensory Biology, Behavior and Practical Applications, Evanston, Illinois. (Invited Talk).
- dePinna, M. and T. Grande 2001. Weberian-like modifications in anterior vertebrae of pristigasteroid fishes (Teleostei, Clupeomorpha). American Society of Ichthyologists and Herpetologists, Pennsylvania.
- Grande, T. and M. dePinna. 2001. The development and evolution of the Weberian ossicles in Clupeocephalan fishes. Third International Congress on Mesozoic Fishes, Serpiano, Switzerland. (Invited Talk).
- DePinna, M. and T. Grande. 2002. Anterior-vertebral characters informative about relationships among clupeomorphs, gonorynchiformes and otophysans (Teleostei). American Society of Ichthyologists and Herpetologists, Kansas City, Missouri.
- Chan, Q, T. Grande and H. Laten 2002. Species level relationships of extant esocids based on morphological and molecular data. American Society of Ichthyologists and Herpetologists. (Talk given by T. Grande). Kansas City, Missouri.

Major Field Work

- 1979 – 1980 Field work conducted for Master's thesis: resource partitioning of two populations of fundulines in Long Island Sound salt marshes, New York.
- 1981, 1982 Two summers spent in Saint Croix conducting Hydrolab missions investigating the change over patterns of coral reef fishes. Research was supported through Fordham University.

2000 – Present Pre-Health Advisory Committee.
2002 Summer Stipend Award Committee

Professional Service

1994 – Present Manuscript reviewer for the following: Copeia, Journal of Vertebrate Paleontology, Mesozoic Fishes, Canadian Journal of Paleontology.
1994 – Present Research proposal reviewer for the National Science Foundation: Systematic Biology, Geology, Tree of Life.
1999 Scientific reviewer for new edition of “Functional Anatomy of the Vertebrates” by Liem et al., Saunders College Publishing.
2002 NSF panelist: Systematic Biology.

Graduate Advisement

Academic Director: John Ricken, Aleks Kuzminska, Laura Lapsys (defended October 1999), Catherine Hatzos (defended March 2001), Marianna Papaspiliou (defended (May 2001), Queenie Chan (defended January 2002), Amanda Fabiano.

Thesis Committees: Kate Woodson (defended), Indira Bhattacharjie, Stephanie Carmen (defended), Kirby Wolfe (defended), Milana Yuzhakova, Sogund Ghassemi (defended), Ying Chen (defended), Helen Beris, Alan Yost (defended), Mark Zahareas.

Fusun Ozer, doctoral student, University of Illinois at Chicago

Professional Teaching (Excluding Teaching as a Graduate Student)

Comparative Anatomy of the Vertebrates – Loyola University (BIOL 323), Roosevelt University (BIO 219).

Ichthyology – Loyola University (BIOL 370).

Evolution – Loyola University (BIOL 319).

Special Topics in Evolution – Pattern and Process - Loyola University (BIOL 395, 495).

Advanced Evolution – Loyola University (BIOL 399).

Biology of Women – Loyola University (395, 495, WOST 397).

General Biology – Loyola University (BIOL 101, 102, 111, 112) Roosevelt University (BIO 101).

Anatomy and Physiology – Loyola University (BIOL 152, 153).

Independent Research – Loyola University (BIOL 299).

Internship – Loyola University Biology/ Field Museum (BIOL 397).

Graduate Seminar – Loyola University (BIOL 502).

Graduate Instruction & Teaching in Biology – Loyola University (BIOL 510).

Environmental Biology – Roosevelt University Chicago (BIO 100).

Organismal Biology – Roosevelt University Chicago (BIO 311).

