

Peter G. DeCelles
Curriculum Vitae
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PERSONAL INFORMATION

Born: June 15, 1958, Baltimore, Maryland
Married, two children
U.S. Citizen

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EDUCATION

1980 B.S. in Geology, University of Notre Dame, Notre Dame, IN
1984 Ph.D. and M.A. in Geology, Indiana University, Bloomington, IN
1984-1986 Postdoctoral Scholar, Stanford University, Stanford, CA

PROFESSIONAL EXPERIENCE

2007-08 Allan Cox Professor, Stanford University
2007 (part) Guest Professor, University of Bologna, Bologna, Italy
1998-present Professor, Department of Geosciences,
University of Arizona, Tucson, AZ
1993-98 Associate Professor, Department of Geosciences,
University of Arizona, Tucson, AZ
1996 (part) Visiting Professor, University of Rome, Rome, Italy
1990-91 NSF-NATO Fellow, University of Bologna, Bologna, Italy
1992-93 Associate Professor, Department of Geological Sciences,
University of Rochester, Rochester, NY
1986-92 Assistant Professor, Department of Geological Sciences,
University of Rochester, Rochester, NY
1986 Visiting Professor, Indiana University Geologic Field Station, Cardwell, MT
1984-85 Postdoctoral Scholar, Stanford University, Department of Geology
1984 Summer Research Geologist, Conoco, Inc., Clastics Research Group, Ponca
City, Oklahoma
1980-84 Associate Instructor, Indiana University, Department of Geology
1979, 81 Associate Instructor, Indiana University Geologic Field Station, Cardwell, MT
1980 Geologist, U.S. Geological Survey

PROFESSIONAL AFFILIATIONS

American Geophysical Union, Geological Society of America (Fellow), The Explorers Club
(Fellow), Arizona Geological Society

PROFESSIONAL SERVICES AND ACTIVITIES

- 2006-07 Field Trip leader and short-course instructor for ExxonMobil
- 2005 Field Trip leader for Devon Energy in Sevier thrust belt
- 2004 Field Trip leader for ExxonMobil in Sevier thrust belt
- 2003 Field Trip leader for ExxonMobil and Midland Valley in Sevier thrust belt
Short course on tectonics of sedimentary basins, ExxonMobil
- 2002-present Panel member, Continental Dynamics Program, National Science Foundation
- 2001-present Editor, *Basin Research*
- 2001-present Editor, *Journal of the Nepal Geological Society*
- 1999 Sabbatical project: Thrust Belts and Foreland Basins, Cambridge, with co-author G. Mitra.
- 1998 Co-leader of geological field trip for AAPG National Meeting, Salt Lake City. Trip title: Coupled structure and sedimentation through 100 m.y. of thrust wedge evolution, Sevier thrust belt, northern Utah, western Wyoming and southeastern Idaho.
- 1997 Co-leader of geological field trip for GSA National Meeting, Salt Lake City. Trip title: Hinterland to foreland transect through the Sevier orogen, northeast Nevada to north central Utah: Structural style, metamorphism, and kinematic history of a large contractional orogenic wedge.
- 1997-2000 Editorial Board, *Basin Research*
- 1997 Theme Session Co-Chairman (with P. Hennings, Mobil) at 1997 AAPG National Meeting in Dallas. Session title: Coupled tectonics and sedimentation.
- 1995-2004 Editorial Board, *Geology*.
- 1993-2003 Associate Editor, *Geological Society of America Bulletin*.
- 1995 Leader of geological field trip for AEC and Norcen Energy Resources, Ltd., Calgary. Trip title: Kinematic history and synorogenic sedimentation, Sevier thrust belt, Utah and Wyoming.
- 1993 Leader of geological field trip for Norcen Energy Resources, Ltd., Calgary. Trip title: Paleocene synorogenic alluvial fan deposits of the Beartooth Range, Montana.
- 1992 Special Symposium Co-Chairman (with T. F. Lawton) at 1992 SEPM Theme Meeting on the Western Interior Cretaceous Basin. Symposium title: Recent Advances in Interpretation of Thrust-Generated Clastics.
- GSA Rocky Mountain Section field trip Co-Leader (with W. A. Yonkee and J. P. Evans). Trip title: Tectonics of the northern Wasatch Range.

- 1991 Keynote Speaker, GSA Penrose Conference on Development and Evolution of Foreland Basins, Can Boix, Spain. Title: Structural controls on foreland basins.
- 1986-present Reviewer of numerous proposals submitted to U.S. National Science Foundation, Swiss National Science Foundation, Italian CNR, American Chemical Society, National Geographic, NCERC (Canada)
- 1986-present Reviewer of numerous manuscripts for publication in Science, Nature, Tectonics, Journal of Sedimentary Research, Geological Society of America Bulletin and Memoirs, Geological Magazine, Sedimentology, Geology, Journal of Geology, Journal of Structural Geology, Sedimentary Geology, Basin Research, Paleo-cubed, G-cubed, and various books and special publications.
- 1989 Leader of geological field trip for ARCO Research Lab. Trip title: Middle Cenozoic sequence stratigraphy of the San Emigdio Range, California.
- 1987 Symposium Co-Chairman (with T. F. Lawton) at 1987 Annual of GSA, Phoenix, AZ.
- 1986 Leader of SEPM Pacific Section Field Trip. Trip title: Middle Cenozoic depositional systems of the San Emigdio Range, southern California.
- 1985 Leader of geological field trips for Sohio and Tenneco. Trip title: Cenozoic siliciclastic deposystems and volcanism in the San Emigdio Range, southern California.

SPEAKING ENGAGEMENTS WITHOUT PUBLISHED ABSTRACTS

- 2007 Department of Geological Sciences, University of Michigan
Research Institute for Petroleum Exploration and Development, Beijing, China
Institute for Tibetan Plateau Research, Chinese Academy of Sciences, Beijing
Department of Geological and Environmental Sciences, University of Bologna
- 2006 Arizona Geological Society
Colorado Scientific Society, Emmons Lecture
Department of Geological Sciences, University of Kansas
- 2004 Department of Geology & Geophysics, University of Wisconsin
University of Potsdam, Germany (two lectures)
- 2003 Department of Geological Sciences, Indiana University
ExxonMobil Exploration Company, Houston
Department of Geological Sciences, New Mexico State University
Department of Earth & Planetary Sciences, University of New Mexico
- 2002 Department of Geological Sciences, Arizona State University
Institute of Geology, Chinese Academy of Sciences, Beijing
Department of Geological Sciences, University of Kentucky
- 2000 Department of Geology, Dennison University
Department of Geology, Northern Arizona University
Department of Geology, Tribhuvan University, Kathmandu Nepal
Geological Institute, ETH, Zurich
Department of Geology and Geophysics, University of Wyoming
Department of Earth & Space Sciences, UCLA
- 1999 Department of Geological Sciences, Indiana University

- 1998 Department of Earth & Environmental Sciences, Stanford University
Department of Geological Sciences, University of Houston
Department of Geological Sciences, University of Oregon
Guest participant in Chevron Overseas Petroleum Thrust Belts short course
- 1997 Department of Geology & Geophysics, University of Oklahoma
- 1996 Department of Earth & Space Sciences, UCLA
Department of Geology, Northern Arizona University
Department of Geological Sciences, University of Rome (2)
- 1993 Department of Earth Sciences, New Mexico State University
- 1992 Department of Geology, McMaster University
Department of Geosciences, University of Arizona
- 1991 Department of Geological Sciences, Northwestern University
Department of Mineralogical Science, University of Bologna (2)
Keynote Speaker, GSA Penrose Conference, Can Boix, Spain.
- 1990 Department of Geology & Institute for Meteoritics, University of New Mexico
- 1989 Department of Geological Sciences, Lehigh University
Department of Geological Sciences, Cornell University
ARCO Research Lab, Plano
- 1986 Department of Geology, Stanford University
- 1985 Department of Geological Sciences, University of Rochester
Department of Geological Sciences, Mackey School of Mines
University of Nevada-Reno
Department of Geology, Stanford University
Conoco, Inc., Research Lab, Ponca City

GRADUATE THESES SUPERVISED

- Pivnik, D. A., 1988, Compositional and sedimentological trends in Late Cretaceous Little Muddy Creek and Sphinx Conglomerates as signatures of timing and style of thrust-related deformation: M.S. thesis, University of Rochester, 122 pp.
- Cole, R. B., 1989, Early Miocene volcanism in the southern San Joaquin basin, California: origin and tectonic implications based on facies analysis and trace element geochemistry: M.S. thesis, University of Rochester, 120 pp.
- Ridgway, K. D., 1992, Cenozoic tectonics of the Denali fault system, Saint Elias Mountains, Yukon Territory: Synorogenic sedimentation, basin development, and deformation along a transform fault system: Ph.D. dissertation, University of Rochester, 400 pp.
- Rhoades, M. L., 1992, Provenance of middle Tertiary sandstones of the San Emigdio and Tehachapi Mountains, southern California; M.S. thesis, University of Rochester, 117 pp.
- Cole, R. B., 1993, Middle Tertiary sedimentation and volcanism in southern California along a convergent-to-transform plate boundary: Ph.D. dissertation, University of Rochester, 250 pp.
- Currie, B. S., 1993, Sedimentology, stratigraphy and petrology of the Jurassic-Cretaceous Morrison and Cedar Mountain formations and relationships between nonmarine deposition and early Cordilleran foreland basin development, NE Utah-NW Colorado: M.S. thesis, University of Rochester, 91 pp.
- Haldar, J. K., 1997, Evolution of Late Cretaceous-Paleocene nonmarine deposystems in the Thistle wedge-top basin, east central Utah: M. S. thesis, University of Arizona, 65 p.
- Currie, B. S., 1997, Jurassic-Cretaceous evolution of the central Cordilleran foreland-basin system: Ph.D. Dissertation, University of Arizona, 275 p.
- Horton, B. K., 1998, Late Cretaceous to Recent evolution of the foreland basin system and associated fold-thrust belt in the central Andes of Bolivia: Ph.D. Dissertation, University of Arizona, 208 p.

- Garzione, C. N., 2000, Evolution of Thakkhola graben and Paleoelevation in the Southern Tibetan Plateau, Nepal: Ph.D. Dissertation, University of Arizona, 146 p.
- Barbeau, D. L., 2000, A flexural model for the Paradox Basin: implications for the tectonics of the Ancestral Rocky Mountains: M. S. thesis, University of Arizona.
- McQuarrie, N., 2001, The making of a high elevation orogenic plateau: the central Andes of Bolivia: Ph.D. Dissertation, University of Arizona, 255 p.
- Robinson, D.M. 2001, Structural and Nd-isotopic evidence for the tectonic evolution of the Himalayan fold-thrust belt, western Nepal and the northern Tibetan Plateau: Ph.D. Dissertation, University of Arizona, 224 pp.
- Pearson, O.N., 2002, Structural evolution of the central Nepal fold-thrust belt and regional tectonic and structural significance of the Ramgarh thrust: Ph.D. Dissertation, University of Arizona, 241 pp.
- Barbeau, D.L., 2003, Application of growth strata and detrital-zircon geochronology to stratigraphic architecture and kinematic history: Ph.D. Dissertation, University of Arizona, 227 pp.
- Martin, A.J., 2005, Tectonics of the southern Annapurna Range, central Nepal Himalaya: Ph.D. Dissertation, University of Arizona, 203 pp.
- Leier, A.L., 2005, The Cretaceous evolution of the Lhasa terrane, southern Tibet: Ph.D. Dissertation, University of Arizona, 234 pp.
- Fabijanic, J.M., 2006, Synorogenic sediments in the central Lhasa terrane and implications for the tectonic history of the Tibet prior to the Indo-Asian collision: M.S. thesis, University of Arizona, 62 pp.

PUBLICATIONS

Articles in peer-reviewed publications

96. Garzanti, E., Vezzoli, G., Ando, S., Lavé, J., Attal, M., France-Lanord, C., and DeCelles, P.G., 2007, Quantifying sand provenance and erosion (Marsyandi River, Nepal Himalaya): Earth and Planetary Science Letters, in press.
95. Carrapa, B., and DeCelles, P.G., Eocene exhumation and basin development in the Puna of Northwestern Argentina: Tectonics, in press.
94. Leier, A.L., Kapp, P., DeCelles, P.G., and Gehrels, G.E., Lower Cretaceous strata of central Tibet: implications for regional deformation and uplift prior to the Indo-Asian collision: Journal of Sedimentary Research, in review.
93. Pullen, A., Kapp, P., Gehrels, G.E., DeCelles, P.G., Brown, E., Fabijanic, J.M., and Ding, L., Gangdese retroarc thrust belt and foreland basin deposits in the Damxung area, southern Tibet: Journal of Asian Earth Sciences, in review.
92. Cavazza, W., DeCelles, P.G., Fellin, M.G., and Paganelli, L., 2007, The Miocene Saint-Florent basin in northern Corsica: stratigraphy, sedimentology, and tectonic implications: Basin Research, doi: 10.1111/j.1365-2117.2007.00334.x.
91. He, S., Kapp, P., DeCelles, P.G., Gehrels, G.E., and Heizler, M., 2007, Cretaceous – Tertiary geology of the Gangdese arc in the Linzhou area, southern Tibet: Tectonophysics, v. 433, p. 15-37, doi:10.1016/j.tecto.2007.01.005.
90. Martin, A.J., Gehrels, G.E., and DeCelles, P.G., 2007, The tectonic significance of (U,Th)/Pb ages of monazite inclusions in garnet from the Himalaya of central Nepal: Chemical Geology, doi: 10.1016/j.chemgeo.2007.05.003.
89. Coogan, J.C., and DeCelles, P.G., 2007, Regional structure and kinematic history of the Sevier fold-and thrust belt, central Utah: Reply: Geological Society of America Bulletin, v. 119, no. 5/6 doi: 10.1130/B26176.1.
88. DeCelles, P.G., Carrapa, B., and Gehrels, G.E., 2007, Detrital zircon U-Pb ages provide new provenance and chronostratigraphic information from Eocene synorogenic deposits in northwestern Argentina: Geology, v. 35, p. 323-326.
87. Leier, A.L., Kapp, P., Gehrels, G.E., and DeCelles, P.G., 2007, Detrital zircon geochronology of Carboniferous-Cretaceous strata in the Lhasa terrane, southern Tibet: Basin Research, v. 19, p. 361-378.
86. DeCelles, P.G., Kapp, P., Ding, L., and Gehrels, G.E., 2007, Cretaceous-mid Tertiary basin development in the central Tibetan Plateau: Changing environments in response to changing climate, tectonic partitioning, and elevation gain: Geological Society of America Bulletin, v. 119, p. 654-680, doi: 10.1130/B26074.1.
85. Kapp, P., DeCelles, P.G., Gehrels, G.E., Heizler, M., and Ding, L., 2007, Geological records of the Cretaceous Lhasa-Qiangtang and Indo-Asian collisions in the Nima basin area, central Tibet, Geological Society of America Bulletin, v. 119, p. 917-932; doi:10.1130/B26033.1.

84. Kapp, P., DeCelles, P.G., Leier, A.L., Fabijanic, J.M., He, S., Pullen, A., Gehrels, G.E., and Ding, L., 2007, The Gangdese retroarc thrust belt revealed: *GSA Today*, V. 17, number 7, p 4-9.
83. Leier, A., DeCelles, P.G., and Kapp, P., 2007, The Takena Formation of the Lhasa terrane, southern Tibet: the record of a Late Cretaceous retroarc foreland basin: *Geological Society of America Bulletin*, v. 119, p. 31-48.
82. DeCelles, P.G., Kapp, P., Fan, M., Quade, J., Dettman, D., and Ding, L., 2007, High and dry in the central Tibetan Plateau during the Oligocene: *Earth and Planetary Science Letters*, v. 253, p. 389-401.
81. Szulc, A.G., Najman, Y., Sinclair, H.D., Pringle, M., Bickle, M., Chapman, H., Garzanti, E., Ando, S., Huyghe, P., Mugnier, J.-L., Ojha, T., and DeCelles, P., 2006, Tectonic evolution of the Himalaya constrained by detrital ^{40}Ar - ^{39}Ar , Sm-Nd and petrographic data from the Siwalik foreland basin succession, SW Nepal: *Basin Research*, v. 18, p. 375-392.
80. Gehrels, G.E., DeCelles, P.G., Ojha, T.P., and Upreti, B.N., 2006, Geologic and U-Pb geochronologic evidence for early Paleozoic tectonism in the Dadeldhura thrust sheet, far-west Nepal Himalaya: *Journal of Asian Earth Sciences*, v. 28, p. 385-408.
79. Robinson, D.M., DeCelles, P.G., and Copeland, P., 2006, Tectonic evolution of the Himalayan thrust belt in western Nepal: implications for channel flow models: *Geological Society of America Bulletin*, v. 118; no. 7/8; p. 865–885; doi: 10.1130/B25911.1, p. 865-885.
78. DeCelles, P.G., and Coogan, J.C., 2006, Regional structure and kinematic history of the Sevier fold-thrust belt, central Utah: Implications for the Cordilleran magmatic arc and foreland basin system, *Geological Society of America Bulletin*, v. 118; no. 7/8; p. 841–864; doi: 10.1130/B25759.1, p. 841-864.
77. Gehrels, G.E., DeCelles, P.G., Ojha, T.P., and Upreti, B.N., 2006, Geologic and U-Th-Pb geochronologic evidence for early Paleozoic tectonism in the Kathmandu thrust sheet, central Nepal Himalaya: *Geological Society of America Bulletin*, v. 118, p. 185-198; doi:10.1130/B25753.1.
76. McQuarrie, N., Horton, B.K., Zandt, G., Beck, S., and DeCelles, P.G., 2005, Lithospheric evolution of the Andean fold–thrust belt, Bolivia, and the origin of the central Andean plateau: *Tectonophysics*, v. 399, p. 15-37.
75. Pearson, O. N., and DeCelles, P. G., 2005, Structural geology and regional tectonic significance of the Ramgarh thrust, Himalayan fold-thrust belt of Nepal: *Tectonics*, Vol. 24, No. 4, TC400810.1029/2003TC001617.
74. Leier, A., DeCelles, P.G., and Pelletier, J., 2005, Mountains, monsoons, and megafans: *Geology*, v. 33, p. 289-292.
73. Martin, A.J., DeCelles, P.G., Gehrels, G.E., Patchett, P.J., and Isachsen, C., 2005, Isotopic and structural constraints on the location of the Main Central thrust in the Annapurna Range, central Nepal Himalaya, *Geological Society of America Bulletin*, v. 117, p. 926–944; doi: 10.1130/B25646.1.
72. Ross, G. M., Patchett, P.J., DeCelles, P.G., Heaman, L., Rosenberg, E., and Giovanni, M., 2005, Evolution of the Cordilleran orogen (southwestern Alberta) inferred from detrital mineral geochronology and Nd isotopes in the foreland: *Geological Society of American Bulletin*, v. 117, p. 746-763, doi 10.1130/B25564.1.
71. DeCelles, P.G., Gehrels, G.E., Najman, Y., Martin, A.J., Carter, A., and Garzanti, E., 2004, Detrital geochronology and geochemistry of Cretaceous–Early Miocene strata of Nepal: Implications for timing and diachroneity of initial Himalayan orogenesis, *Earth and Planetary Science Letters*, v. 227, p. 313-330, doi:10.1016/j.epsl.2004.08.019.
70. Ducea, M., Valencia, V.A., Shoemaker, S., Reiners, P.W., DeCelles, P.G., Maria Fernanda Campa, M.F., Morán-Zenteno, and Ruiz, J., 2004, Rates of sediment recycling beneath the Acapulco trench: Constraints from (U-Th)/He thermochronology: *Journal of Geophysical Research*, v. 109, B09404, doi:10.1029/2004JB003112.
69. Horton, B.K., Constenius, K.N., and DeCelles, P.G., 2004, Tectonic control on coarse-grained foreland-basin sequences: An example from the Cordilleran foreland basin, Utah: *Geology*, v. 32, p. 637-640.
68. DeCelles, P.G., 2004, Late Jurassic to Eocene evolution of the Cordilleran thrust belt and foreland basin system, western USA: *American Journal of Science*, v. 304, p. 105-168.
67. Quade, J., English, N., and DeCelles, P.G., 2003, Silicate versus carbonate weathering in the Himalaya: a comparison of the Arun and Seti River watersheds: *Chemical Geology*, v. 202, p. 275-296.
66. Conder, J., Butler, R.F., DeCelles, P.G., and Constenius, K.N., 2003, Paleomagnetic determination of vertical-axis rotations within the Charleston – Nebo salient, Utah: *Geology*, v. 31, p. 1113-1116.
65. Gehrels, G.E., DeCelles, P.G., Martin, A., Ojha, T.P., Pinhassi, G., and Upeti, B.N., 2003, Initiation of the Himalayan orogen as an early Paleozoic thin-skinned thrust belt: *GSA Today*, v. 13, no. 9, p. 4-9.

64. Robinson, D.M., DeCelles, P.G., Garzione, C.N., Pearson, O.N., Harrison, T.M., and Catlos, E.J., 2003, Kinematic model for the Main Central thrust in Nepal: *Geology*, v. 31, p. 359-362.
63. Garzione, C.N., DeCelles, P.G., Hodkinson, D.G., Ojha, T.P., and Upreti, B.N., 2003, East-west extension and Miocene environmental change in the southern Tibetan plateau: Thakkhola graben, central Nepal: *Geological Society of America Bulletin*, v. 115, p. 3-20.
62. DeCelles, P. G., and Horton, B. K., 2003, Implications of early-middle Tertiary foreland basin development for the history of Andean crustal shortening in Bolivia: *Geological Society of America Bulletin*, v. 115, p. 58-77.
61. DeCelles, P.G., Robinson, D.M., and Zandt, G., 2002, Implications of shortening in the Himalayan fold-thrust belt for uplift of the Tibetan Plateau, *Tectonics*, v. 21, no. 6, 1062, doi:10.1029/2001TC001322.
60. Robinson, D.M., DeCelles, P.G., Patchett, P.J. and Garzione, C.N., 2001, The kinematic history of the Nepalese Himalaya interpreted from Nd isotopes: *Earth and Planetary Science Letters*, v. 192, p. 507-521.
59. McQuarrie, N., and DeCelles, P. G., 2001, Geometry and structural evolution of the Central Andean backthrust belt, Bolivia: *Tectonics*, v. 20, p. 669-692.
58. DeCelles, P. G., Robinson, D. M., Quade, J., Ojha, T.P., Garzione, C.N., Copeland, P., and Upreti, B. N., 2001, Stratigraphy, structure, and tectonic evolution of the Himalayan fold-thrust belt in western Nepal: *Tectonics*, v. 20, p. 487-509.
57. Horton, B. K., and DeCelles, P. G., 2001, Modern and ancient fluvial megafans in the foreland basin system of the central Andes, southern Bolivia: implications for drainage network evolution in fold-thrust belts: *Basin Research*, v. 13, p. 43-64.
56. DeCelles, P. G., and DeCelles, P. C., 2001, Rates of shortening, propagation, underthrusting, and flexural wave migration in continental orogenic systems: *Geology*, v. 29, p. 135-138.
55. Garzione, C. N., Quade, J., DeCelles P. G., and English, N. B., 2000, Predicting paleoelevation of Tibet and the Nepal Himalaya from $\delta^{18}\text{O}$ vs. altitude gradients in meteoric water across the Nepal Himalaya: *Earth and Planetary Science Letters*, v. 183, p. 215-230.
54. Garzione, C. N., Dettman, D. L., Quade, J., DeCelles, P. G., and Butler, R. F., 2000, High times on the Tibetan Plateau: paleoelevation of the Thakkhola graben, Nepal: *Geology*, v. 28, p. 339-342.
53. English, N. B., Quade, J., DeCelles, P. G., and Garzione, C. N., 2000, Geologic control of Sr and major element chemistry in Himalayan rivers, Nepal: *Geochimica et Cosmochimica Acta*, v. 64, p. 2549-2566.
52. DeCelles, P. G., Gehrels, G. E., Quade, J., LaReau, B., and Spurlin, M., 2000, Tectonic implications of U-Pb detrital zircon ages from the Himalayan orogenic belt, Nepal: *Science*, v 288, p. 497-499.
51. Ojha, T. P., Butler, R. F., Quade, J., DeCelles, P. G., Richards, D., and Upreti, B. N., 2000, Magnetic polarity stratigraphy of the Neogene Siwalik Group at Khutia Khola, Farwestern Nepal: *Geological Society of America Bulletin*, v. 112, p. 424-434.
50. Cavinato, G. P., and DeCelles, P. G., 1999, Extensional basins in the tectonically bimodal central Apennines fold-thrust belt, Italy: response to corner flow above a subducting slab in retrograde motion: *Geology*, v. 27, p. 955-958.
49. DeCelles, P. G., and Cavazza, W., 1999, A comparison of fluvial megafans in the Cordilleran (Late Cretaceous) and modern Himalayan foreland basin systems: *Geological Society of America Bulletin*, v. 111, p. 1315-1334.
48. DeCelles, P. G., Gehrels, G. E., Quade, J., and Ojha, T. P., 1998, Eocene-early Miocene foreland basin development and the history of Himalayan thrusting, western and central Nepal: *Tectonics*, v. 17, p. 741-765.
47. Cavazza, W., and DeCelles, P. G., 1998, Upper Messinian siliciclastic rocks in southeastern Calabria (southern Italy): palaeotectonic and eustatic implications for the evolution of the central Mediterranean region: *Tectonophysics*, v. 298, p. 223-241.
46. DeCelles, P. G., Gehrels, G. E., Quade, J., Ojha, T. P., Kapp, P. A., and Upreti, B. N., 1998, Neogene foreland basin deposits, erosional unroofing, and the kinematic history of the Himalayan fold-thrust belt, western Nepal: *Geological Society of America Bulletin*, v. 110, p. 2-21.
45. Chase, C. G., Gregory, K. M., Parrish, J. T., and DeCelles, P. G., 1998, Topographic history of the western Cordilleran of North America and controls on climate, in Crowley, T. J., and Burke, K., eds., *Tectonic Boundary Conditions for Climate Reconstructions*, Oxford Monographs on Geology and Geophysics, No. 39, p. 73-99.
44. Coogan, J. C., and DeCelles, P. G., 1998, Extensional collapse along the Sevier Desert reflection, northern Sevier Desert basin, western United States: Reply to Comment: *Geology*, v. 26, p. 475.

43. DeCelles, P.G. and Giles, K.A., 1997, Foreland basin systems: Reply to Comment by S. Moss and A. McCarthy: *Basin Research*, v. 9, p. 172-176.
42. Horton, B. K., and DeCelles, P. G., 1997, The modern foreland basin system adjacent to the central Andes: *Geology*, v. 25, p. 895-898.
41. Quade, J., Roe, L., DeCelles, P. G., and Ojha, T. P., 1997, The Late Neogene $^{87}\text{Sr}/^{86}\text{Sr}$ record of lowland Himalayan rivers: *Science*, v. 276, p. 1828-1831.
40. Cavazza, W., Blenkinsop, J., DeCelles, P. G., Patterson, R. T., and Reinhardt, E., 1997, Stratigrafia e sedimentologia della sequenza sedimentaria Oligocenico-Quaternaria del bacino Calabro-Ionico: *Bollettino della Societa Geologia Italiano*, v. 116, p. 51-77.
39. DeCelles, P. G., and Giles, K. N., 1996, Foreland basin systems: *Basin Research*, v. 8, p. 105-123.
38. DeCelles, P. G., and Currie, B. S., 1996, Long-term sediment accumulation in the Middle Jurassic-early Eocene cordilleran retroarc foreland basin system: *Geology*, v. 24, p. 591-594.
37. Coogan, J. C., and DeCelles, P. G., 1996, Seismic architecture of the Sevier Desert detachment basin: evidence for large-scale regional extension: *Geology*, v. 24, p. 933-936.
36. DeCelles, P.G. and Mitra, P. G., 1995, History of the Sevier orogenic wedge in terms of critical taper models, northeast Utah and southwest Wyoming: *Geological Society of America Bulletin*, V. 107, p. 454-462.
35. DeCelles, P.G., and Cavazza, W., 1995, Upper Messinian conglomerates in southeastern Calabria (southern Italy): response to orogenic wedge adjustment following Mediterranean sea-level changes: *Geology*, v. 23, p 775-778.
34. DeCelles, P.G., Lawton, T.F., and Mitra, G., 1995, Thrust timing, growth of structural culminations, and synorogenic sedimentation in the type Sevier orogenic belt, western USA: *Geology*, v. 23, p. 699-702.
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11. Cole, R.B.*, Ridgway, K.D., and DeCelles, P.G., 1989, Late stage deposition within a Cenozoic strike-slip basin: fluvial/basalt/pyroclastic transitions, St. Elias Mountains, Yukon Territory, Canada: Geological Society of America, Abstracts with Programs, 21, A128.
10. Sharma, M., Basu, A.R.*, and DeCelles, P.G., 1989, Nd-Sr isotopes and trace element geochemistry of Amazonian fluvial sands from Bolivia and Peru: implications for magma contamination in the Central Volcanic Zone (CVZ) and tectonics of the Andes: Geological Society of America, Abstracts with Programs, 21, A190.
9. Meyers, J.H.*, Schwartz, R.K., and DeCelles, P.G., 1989, Influence of pre-Laramide tectonic partitioning of the Wyoming foreland basin on Early Cretaceous sedimentation, Geological Society of America, Abstracts with Programs, 20, 117.
8. DeCelles, P.G.*, 1988, Eustatic vs. tectonic controls on middle Cenozoic sedimentation in the San Joaquin basin, California: Geological Society of America, Abstracts with Programs, 20, A379-A380.
7. Schwartz, R.K.*, and DeCelles, P.G., 1987, Temporally linked thrusting, intraforeland uplift and progradational coarsening in the nascent (pre-Turonian) foreland of southwest Montana: Geological Society of America, Abstracts with Programs, 19, 836.
6. DeCelles, P.G.*, and Schmidt, C.J., 1987, Synorogenic sedimentation and timing of foreland thrusting, southwest Montana: Geological Society of America, Abstracts with Programs, 19, 638.
5. Suttner, L.J.*, DeCelles, P.G., and Berkhouse, G.A., 1985, Tectonic controls on Early Cretaceous sedimentation in the foreland basin of western Montana: International Association of Sedimentologists, International Symposium on Foreland Basins, Fribourg, 120.
4. DeCelles, P.G.*, 1984, Non-marine sedimentation in a tectonically partitioned foreland basin: the Kootenai Formation, southwestern Montana: Geological Society of America, Abstracts with Programs, 16.
3. DeCelles, P.G.*, and Gutschick, R.C., 1983, Mississippian wood-grained chert in western United States and its significance: Geological Society of America, Abstracts with Programs, 15, 555.
2. Schwartz, R.K.*, DeCelles, P.G., and Suttner, L.J., 1983, Tectonic control on Early Cretaceous foreland basin evolution and sedimentation in southwestern Montana: Geological Society of America, Abstracts with Programs, 15, 682.
1. DeCelles, P.G.*, 1982, Sediment dispersal in the lower Kootenai Formation (Lower Cretaceous), southwestern Montana: Geological Society of America, Abstracts with Programs, 14, 309.

RESEARCH GRANTS

- 2007-2008 A New Geological Map of Nepal: National Geographic Society.
- 2007-2010 Convergent Orogenic Systems Analysis: ExxonMobil.
- 2007-2010 Collaborative Research: Stratigraphic signatures of orogeny, assessing the timing of initial Andean crustal shortening: National Science Foundation.
- 2005-2008 Global Assessment of Fold-Thrust Belts and Foreland Basins: ExxonMobil.
- 2005-2008 Collaborative Research: Investigation of syncollisional extension and basin development in the high Himalaya: National Science Foundation.
- 2004-2007 Detrital zircon chronology of Colorado Mesozoic strata: Implications for continental paleogeography and Paleotectonics: National Science Foundation.
- 2003-2006 Cretaceous-Earliest Tertiary Basin Development, Deformation, and Magmatism in Southern Tibet: Implications for Pre-Indo-Asian Collision Lithospheric Structure: National Science Foundation.
- 2003-2004 Geostructure Partnership, ExxonMobil.
- 2002-2004 A test of the out-of-sequence model for the Main Central thrust, western Nepal: National Science Foundation.
- 2002-2004 Dissertation support and fellowship for David Barbeau, ExxonMobil URC.
- 2002-2003 Geostructure Partnership, ExxonMobil.
- 2001-2003 Early Paleozoic tectonism in the Himalaya: National Science Foundation.
- 2001-2002 Geostructure Partnership, ExxonMobil.
- 1999-2001 3-D kinematic evolution of the Charleston-Nebo salient, Sevier fold-thrust belt: National Science Foundation.
- 1999-2001 Nd isotopic study of foreland basin sediments and source terranes of the Himalayan fold-thrust belt: Implications for regional tectonic history: National Science Foundation.
- 1998-2000 Late Cretaceous-Tertiary foreland basin evolution in the Eastern Cordillera of southern Bolivia: National Science Foundation.
- 1999-2000 Geostructure Partnership, British Petroleum.
Geostructure Partnership, Conoco.
- 1998-1999 Geostructure Partnership, British Petroleum.
Geostructure Partnership, Conoco.
- 1998 British Petroleum, for support of Ph.D. student Brian Horton's research in the Andes.
- 1998-2000 The $^{87}\text{Sr}/^{86}\text{Sr}$ record of Himalayan paleorivers during the Neogene: patterns and causes: National Science Foundation.
- 1996-1998 Kinematic history of a retroarc fold-thrust orogen: the Sevier orogenic belt, Utah and Wyoming: National Science Foundation.

- 1995-1997 Erosional unroofing of the Nepal Himalayas over the past 12 m.y.: $^{87}\text{Sr}/^{86}\text{Sr}$ and sedimentary petrological indicators from Siwalik foreland deposits: National Science Foundation.
- 1995 Miocene-Pliocene erosional unroofing of the Himalayan thrust belt, Nepal: University of Arizona Foundation.
- 1994 Cooperative research between the University of Arizona Geosciences Department and CogniSeis Development, Inc.: GeoSec software grant.
- 1993-1996 Tectonic controls on distal, thrust-derived sediment, Bighorn basin, Wyoming: National Science Foundation.
- 1993-1995 Reconstruction of thrust-wedge taper in the Wyoming-Utah Sevier thrust belt: National Science Foundation.
- 1992-1994 Incremental retrodeformation of NE Utah thrust belt using late Cretaceous-Paleocene synorogenic conglomerates: National Science Foundation.
- 1991-1993 Regional sequence-stratigraphic and geochronologic analysis of Cordilleran foreland basin, Wyoming and Idaho: National Science Foundation.
- 1990-1992 Middle Cenozoic syntectonic sedimentation along the Denali fault, Yukon Territory, Canada: American Chemical Society, Petroleum Research Fund.
- 1990-1991 Tectonic implications of Neogene submarine-slope clastics, southern Italy: National Science Foundation-NATO Fellowship.
- 1989 Acquisition of automated X-ray diffractometer: National Science Foundation.
- 1989-1991 Facies and provenance modeling of thrust-derived synorogenic conglomerates: National Science Foundation.
- 1988-1990 Regional tectonic-stratigraphic analysis of Late Jurassic-Early Cretaceous Cordilleran foreland basin: National Science Foundation.
- 1987-1989 Petrologic controls and tectonic setting of a middle Tertiary fan-delta sequence, southern California: American Chemical Society, Petroleum Research Fund.

COURSES TAUGHT

Undergraduate: Sedimentology & Stratigraphy, Introductory Geology, Field Geology

Graduate: Advanced Physical Sedimentology, Thrust Belts & Foreland Basins, Basin Analysis, Sedimentary Petrology, Sequence Stratigraphy

RESEARCH INTERESTS

Regional structural evolution of orogenic belts and sedimentary basins.

Tectonics and sedimentation in thrust-faulted and strike-slip settings.

Petrology and provenance (conventional and geochemical) of clastic sediments and sedimentary rocks.

Physical sedimentology and depositional systems in fluvial, alluvial, and marine settings.

Graduate Students & Post-Docs

Pivnik, D. A., 1988, M.S., now with Apache.

Ridgway, K. D., 1992, Ph.D., now tenured Associate Professor, Purdue University.

Cole, R. B., 1993, Ph.D., now tenured Associate Professor, Allegheny College.

- Rhoades, M. L., 1992, M.S., now Instructor, Empire State College.
- Haldar, J. K., 1997, M. S., now in software industry.
- Coogan, J.C., 1994-95, Postdoctoral scholar, now Endowed Associate Professor, Western State College, Gunnison Colorado.
- Currie, B. S., 1997, Ph.D., now tenured Associate Professor, Miami University.
- Horton, B. K., Ph.D., 1998, now tenured Associate Professor, University of Texas, Austin.
- Constenius, K.N., 1999-2001, Postdoctoral scholar, now private consultant in petroleum industry.
- Garziona, C. N., 2000, Ph.D., now tenured Associate Professor, University of Rochester.
- Barbeau, D. L., 2000, M. S., 2004 Ph.D., now Assistant Professor, University of South Carolina.
- McQuarrie, N., 2001, Ph.D., now Assistant Professor, Princeton University.
- D. M. Robinson, 2001, Ph.D., now Assistant Professor, University of Alabama.
- O.N. Pearson, 2002, Ph.D., now with USGS, Denver.
- Aaron J. Martin, 2005, Ph.D., now Assistant Professor, University of Maryland.
- Andrew Leier, 2005, Ph.D., now Hess Postdoctoral Fellow, Princeton University; fall 2007 Assistant Professor, University of Calgary.
- Facundo Fuentes, 2005, M.S., now studying for Ph.D., University of Arizona.
- J. Matthew Fabijanac, 2005, M.S., now exploration geologist with ExxonMobil Corporation.