

Curriculum Vitae: André Eric Punt
AUGUST 2009

EDUCATION AND EMPLOYMENT

- 1982 Matriculated Bergvliet High School ('A' aggregate).
1983 - 1985 B.Sc. UCT (Distinctions in Applied Mathematics, Computer Science, and Mathematics, and Degree with Distinction).
1986 B.Sc. (Hons) UCT (Computer Science - 1st class).
1987 - 1988 M.Sc. UCT (Applied Mathematics - Degree with Distinction) Thesis title: Model selection for the dynamics of Southern African hake resources.
1989 - 1991 Ph.D. UCT (Applied Mathematics) Thesis title: Management procedures for Cape hake and baleen whale resources.
1987 - 1992 Research Officer in the Benguela Resources Population Modeling project of the Benguela Ecology Programme, FRD based in the Department of Applied Mathematics, UCT.
1992 - 1994 Research Associate at the School of Fisheries, University of Washington.
1994 - Resource Modeller, Division of Marine Research, CSIRO.
2001 - 2005 Research Associate Professor, School of Aquatic and Fishery Sciences, University of Washington.
2005 - 2007 Associate Professor, School of Aquatic and Fishery Sciences, University of Washington.
2007 - Professor, School of Aquatic and Fishery Sciences, University of Washington.

STUDENTS SUPERVISED

I currently chair the Committees of the following students:

1. Doug Kinzey: "Multispecies stock assessment with predator-prey interactions" (Ph.D.)
2. Gavin Fay: "Spatial modelling for monitoring and management of marine metapopulations" (Ph.D.)
3. Tommy Garrison: "The Value of Marine Protected Areas for Improving Stock Assessments" (MS)
4. Chantel Wetzell: "Model Selection and Performance Evaluation in the Assessment of Data-limited Species" (MS)
5. Motoki Wu (MS)
6. Cody Szuwalski (Ph.D. Student)

I also co-supervise a Ph.D. student (Mr Bruce Taylor) at the University of Melbourne (2001-). I am a member of the Committees of the following UW students:

1. Arni Magnusson (Ph.D.) [2003 –
2. Juan Valero (Ph.D.) [2003 –
3. Eva Dusek (MS) [2005 –
4. Allan Hicks (Ph.D.) [2006 –

5. Steven Barneaux (Ph.D) [2006 –
6. Nicolas Guiérrez (Ph.D) [2006 –
7. Amanda Bradford (Ph.D) [2007 –
8. Dawn Dougherty (MS) [2007 –
9. Hans Nesse (MS) [2007 –
10. Teresa Mongillo (MS) [2007 –
11. Kresmir Williams (Ph.D.) [2008 –
12. Carey McGilliard (Ph.D.) [2008 –
13. Charlotte Boyd (Ph.D.) [2009 –
14. Tony Jaecks (MS) [2009 –
15. Neala Kendall (Ph.D.) [2009 –
16. Kevin See (Ph.D.) [2009 –
17. Suresh Sethi (Ph.D.) [2009 –
18. Chad Wilsey (Ph.D.) [2009 –

Students with completed degrees

Chaired

1. Gavin Fay: “A Bayesian stochastic metapopulation model for Steller’s sea lions in Alaska” (MS; SAFS, 2004).
2. Teresa A’Mar: “Quantifying Error and Uncertainty in Fishery Stock Assessment Models” (MS; QERM, 2004).
3. Stephani Zador: “Management implications of factors influencing seabird populations” (Ph.D.; SAFS, 2007) [co-chair with Julia Parrish]
4. Rod Towell: “Population dynamics of Northern fur seal population (*Callorhinus Ursinus*) on the Pribilof Islands, Alaska” (MS; QERM, 2008).
5. Jason Cope: “Issues and advances in data-limited stock assessment: Experimentation through simulation” (Ph.D.; SAFS, 2008)
6. Melissa A Haltuch: “Modeling human and climate impacts on the management of the Pacific north west groundfish fishery” (Ph.D.; SAFS, 2008)
7. John Brandon: “Quantifying Uncertainty and Incorporating Environmental Stochasticity in Stock Assessments of Marine Mammals”. (Ph.D.; SAFS, 2009)
8. Teresa A’Mar: “A Management Strategy Evaluation exploring the National Standards of the Magnusson-Stevens Fisheries Conservation and Management Acts with respect to the robustness of decision rules used for North Pacific groundfish, with applications for the U.S. Gulf of Alaska walleye pollock (*Theragra chalcogramma*) fishery” (Ph.D.; SAFS 2009)

Committees

1. Gakushi Ishimura (MS) [2001–2003] (thesis title: “Bioeconomic model approach for a fluctuating fish stock: Bioeconomic assessment of harvest strategies for the Pacific whiting fishery”).
2. Brandon Chasco (MS) [2002–2004] (thesis title: “Run Reconstruction and in-season forecasting of sockeye salmon in Chignik, Alaska”).
3. □ Carolina Minte-Vera (Ph.D.) [2001–2004] (thesis title: “Meta-Analysis of Density-dependent Somatic Growth”).
4. Trevor A. Branch (Ph.D.) [2001–2004] (thesis title: “Individual quotas as a management tool for multispecies fisheries”).
5. Lucy Flynn (MS) [2003–2005] (thesis title: “Quantification and Prediction of Bristol Bay, Alaska, Sockeye Salmon (*Oncorhynchus nerka*) Run Timing”).

6. Tim Miller (Ph.D.) [2003– 2005] (thesis title: “Estimation of Catch Parameters from a Fishery Observer Program with Multiple Objectives”).
7. Ian Stewart (Ph.D.) [2002–2006] (thesis title: “Stock assessment with an evaluation of structural uncertainty, and model performance applied to English sole”).
8. Eric Ward (Ph.D.) [2003–2006] (thesis title: “Incorporating model selection and decision analysis into population dynamics modeling”).
9. Carey McGillaird (MS) [2005 –2006] (thesis title: “The importance of space and the state of the fishery in models of no-take marine reserves”)
10. Jordan Watson (MS) [2006–2007] (thesis title: “Trade-offs in the design of fishery closures: silky shark bycatch management in the Eastern Pacific Ocean tuna purse seine fishery”)
11. Kristen Broms (MS) [2007–2008] (thesis title: “Small game population reconstruction: Model development and applications”)
12. Alex da Silva (Ph.D.) [2001– 2008] (thesis title: “Population dynamics of the blue shark, *Prionace glauca*, in the North Atlantic Ocean”)
13. Ian Taylor (Ph.D.) [2002–2008] (thesis title: “Modeling spiny dogfish population dynamics in the Northeast Pacific”)
14. Robin Thomson (Ph.D.) [2004–2008] (thesis title: “Statistical inference for movement behaviour using animal tracking data”)
15. Judith Little (Ph.D.) [2003-2009] (thesis title: “Evaluating linkages in the social-ecological system of U.S. West Coast fisheries from ecological and spatial perspectives”)

POSTDOCTORAL FELLOWS SUPERVISED

Catherine Holt (2006-2008), Ivonne Oritz (2008-present), Ian Taylor (2008-present), Bob Lessard (2008)

PROFESSIONAL ACTIVITY

Appointments (major committees)

1. Member: Scientific Committee of the International Whaling Commission, 1990 – present
2. Chair: Southern Shark Fishery Assessment Group (Australia), 1995 – 2001.
3. Member: Northern Prawn Fishery Assessment Group, Australia (Australia), 1996 – 2000.
4. Scientific Member: Southern Shark Fishery Management Committee (Australia), 1997 – 2001
5. Member: IUCN Standards and Petitions Working Group, 1998 - present
6. Member: Pacific Fishery Management Council Scientific and Statistical Committee, 2001 – present
7. Participant: Working Group on Integration of Marine Protected Areas and Fishery Science and Management, 2004 – 2006.
8. Member: PSMFC Panel on “Strengthening Scientific Input and Ecosystem-Based Fishery Management for the Pacific and North Pacific Fishery Management Councils”, 2005.
9. Member: North Pacific Research Board Science Panel, 2005 – present
10. Member: North Pacific Research Board Ecosystem Modeling Committee, 2006
11. Member: North Pacific Fishery Management Council Crab PLAN Team, 2007 - present

12. Honorary Associate, Center for Marine Science, University of Tasmania, 2005 – present
13. Editorial Boards: *Fisheries Research*, *Population Ecology*, *The Open Source Fish Science Journal*
14. Associate Editor: *Journal of Applied Ecology*
15. Guest Editor: *Fisheries Research* - Special Issue on GLMs, GAMs and GLMMs in fisheries
16. Guest Editor: *Fisheries Research* – Harvest strategies

Awards

1. Jamieson Memorial Bursary - awarded on the basis of matriculation symbols (South Africa – 1983).
2. Jacob Burlank Scholarship - awarded to the top student in Mathematics II who intends progressing to Mathematics III (South Africa – 1984).
3. Roderick Noble Scholarship - awarded to the B.Sc graduate from UCT with the most outstanding academic record throughout his/her undergraduate career (South Africa – 1985).
4. Southern Life Book Prize - awarded to the top student in the B.Sc. (Hons) Computer Science class (South Africa – 1986).
5. Myer Levinson (EMDIN) Scholarship - awarded to the UCT student who is most successful in his/her B.Sc. (Hons) degree and who intends furthering his/her research in the year following the award of the scholarship (South Africa – 1986).
6. Croll Memorial Scholarship - awarded to the UCT student who is most successful in his/her B.Sc (Hons) degree and who intends furthering his/her research in the year following the award of the scholarship (South Africa – 1986).
7. South African College Croll Scholarship - awarded on the basis of examination results to a UCT student who intends furthering his/her research in the year following the award of the scholarship (South Africa – 1988).
8. S2A3 Medal - awarded by the South African Association for the Advancement of Science for the best M.Sc. dissertation in the Sciences at UCT (South Africa – 1988).
9. K. Radway Allen Award - awarded for an outstanding contribution in fish or fisheries science (Australia - 1999).
10. COFS Distinguished Teaching Awards (USA – 2003 & 2005).
11. COFS Distinguished Research Award (USA – 2008).

Recent (2001-2009) invited talks / keynotes addresses

1. Invited speaker: DFO Fisheries Management Studies Working Group, Dartmouth, 25-29 June 2001.
2. Invited speaker: Life Histories, Assessment and Management of Crustacean Fisheries, La Coruña, 8-14 October 2001.
3. Invited speaker: DFO Workshop on Implementing the Precautionary Approach in Assessment Advice, Ottawa, 10-14 December 2001.
4. Keynote speaker: Elasmobranch Fisheries: Managing for Sustainable Use and Biodiversity Conversation, 24th Annual NAFO meeting, Santiago de Compostela, 11-13 September 2002.
5. Invited speaker: Oregon Chapter American Fisheries Society, 39th Annual Meeting, Eugene, 26-28 February 2003.
6. Invited speaker: American Fisheries Society, 133rd Annual Meeting, Quebec, 11-13 August 2003.

7. Invited speaker: Pre-conference Workshop on Assessment and Management of Deepsea Fisheries, Dunedin, 27-29 November 2003.
8. Keynote speaker: Deep Sea 2003 Conference, Queenstown, 1-5 December 2003.
9. Invited speaker: World Fisheries Congress, Vancouver, 2-6 May 2004.
10. Keynote speaker: 2004 World Conference on Natural Resource Modelling, Melbourne, 12-15 December 2004.
11. Keynote speaker: ICES Symposium on Fisheries Management Strategies, Galway, 27-30 June 2006.
12. Keynote speaker: 10th National Stock Assessment Workshop, Port Townsend, 5-8 June 2008.
13. Keynote speaker. 5th World Fisheries Congress, Yokohama, 20-24 October 2008.
14. Keynote speaker. National Ecosystem Modelling Workshop II, Annapolis, 25-27 August 2009.