



**UCD School of
Mathematics and Statistics**

University College Dublin
Belfield, Dublin 4, Ireland

Tel +353 1 716 2580
Fax +353 1 716 1196

**Scoil na
Matamaitice agus na Staitisticí UCD**

An Coláiste Ollscoile, Baile Átha Cliath
Belfield, Baile Átha Cliath 4, Éire

Email seminars@maths.ucd.ie
Web maths.ucd.ie/seminars

Working Group on Statistical Learning Seminar

Thinh Doan

will speak on

Statistical Chronology Models for Holocene Palaeoenvironmental Reconstruction

Fri 15th April 2011 at 1:00PM

Location: Statistics Seminar Room- L550 Library building

Chronology models aim to reconstruct the sedimentation rate in a single core (typically lake, peat or ocean) given a limited number of age estimates (usually radiocarbon) and fixed depths. Most importantly, they provide a suitably qualified estimate of the uncertainty in the age-depth chronology and thus can be used in a variety of applications. In this talk, I introduce three recently developed Bayesian chronology models (Bpeat, OxCal and Bchron). I make some remarks on how they might be used in palaeoclimate reconstruction. I also present and discuss the results obtained from a large-sample real-data comparison of these models.

This talk is part of the **Working Group on Statistical Learning** series. For more, see <https://maths.ucd.ie/seminars>