

Archaeological Science at ANU: interdisciplinary research

GRADUATE STUDIES: COURSEWORK MASTERS DEGREE

The Australian National University (ANU) in Canberra, Australia's national capital, provides world class arts and science research and teaching opportunities in creative arts, humanities, sciences and social sciences. The Masters in Archaeological Science is a cross-College program taught over one year, encompassing staff in the ANU College of Science, the ANU College of Asia and the Pacific and the ANU College of Arts and Social Sciences.

MASTER OF ARCHAEOLOGICAL SCIENCE (M.Arch. Science)*
One year FT or equivalent PT

The Master of Archaeological Science offers frameworks provided by both present staff and alumni which link high quality research-led education and professional skills development with opportunities for industrial linkage, intra-vocational training and career development. The courses are modular and flexible. Industrial partnership projects, early or mid-career training and employer-sponsored tracks tailored to the individual are encouraged within the Masters program, as is using the course as a prelude to PhD research.

Eligibility: holders of a Bachelor Degree (with distinction average) or a First or Second Class Honours degree or an equivalent mix of academic and professional qualifications and expertise.

ACADEMIC STAFF

The program brings together over 40 top-ranked international researchers expert in fields as diverse as isotope geochemistry, rock art analysis, numerical dating techniques, palynology, climate change, soil stratigraphy, lithic artefacts and analysis of human skeletal remains. These researchers contribute to taught courses, but also supervise students on a one-on-one basis for projects and research dissertations. The combination of staff skills, research diversity and world-class laboratory resources represent a unique Archaeological Science facility.

RESOURCES

The course uses artefact and biological reference collections, laboratory facilities and equipment available within all the participating academic departments. Resources include world class microscopic equipment, mass-spectrometers and computing facilities, University library collections and access to radiocarbon dating and isotope analytical equipment, and facilities for OSL, ESR and U-series dating. The Centre for Archaeological Research provides a bridging framework across staff in Archaeology and Anthropology, ANU College of Arts and Social Sciences; Archaeology and Natural History, ANU College of Asia and the Pacific; and Earth Sciences and Geography, ANU College of Science. It also resources seminars, workshops and facilities which link ANU staff with associated institutions, museums and professionals in the Australian capital, such as at the National Museum of Australia, the Australian Institute of Aboriginal and Torres Strait Islander Studies and CSIRO. The Masters program can offer students access to these resources through internships at museums and laboratories.

CAREER OPPORTUNITIES

ANU graduates in Archaeology and Anthropology, Earth Sciences and Prehistory make significant contributions internationally in fields as diverse as Pacific Archaeology, Lithic Artefact Studies, Early Hominid Research, Australian Prehistory, Palaeoanthropology, Regolith Science, Environmental Management and Climate Change. They work as researchers, teachers, archaeological consultants, museum curators, government scientists, managers of cultural and environmental heritage, policy makers and as managers in the Australian and Southeast Asian mining, water and recreational tourism sectors.

COURSE STRUCTURE: M.Arch. Science

The Master of Archaeological Science is a modular program catering both for students who want an advanced research qualification in a shorter degree program than a PhD, and for professionals and early and mid-career individuals wishing to develop expertise and qualifications. Archaeological Science spans Earth and Materials Science, Molecular Biology, Palaeoecology, Physical Anthropology, Spatial Science (including GIS and Remote Sensing of regolith, sites and objects) and Forensic Science. Professional practice encompasses Natural and Cultural Heritage Management (an evolving international field), Materials Conservation, Museums Studies and Forensic Pathology.

The M.Arch. Science course is taught over a one-year full-time program comprising a mix of three compulsory core courses, which include taught core courses in Archaeological Science and a compulsory supervised research thesis topic tailored to the individual student, as well as a selection of taught modular course electives. Electives include:

- archaeological formation processes
- palaeoenvironmental reconstruction
- scientific dating techniques
- isotope analysis
- human skeletal analysis
- artefact analysis
- Indigenous collections and exhibitions
- forensic Archaeology and Anthropology
- GIS and remote sensing
- Applied Geographic Information Science.

DOCTOR OF PHILOSOPHY (PhD)

Two–four years FT or equivalent PT

The Masters program provides an introductory training and teaching framework, prior to PhD research, but also offers access to researchers, projects and facilities from which topics can be developed and selected for subsequent development as PhD research topics.

ANU COLLEGE OF ARTS & SOCIAL SCIENCES,
ANU COLLEGE OF ASIA & THE PACIFIC AND
ANU COLLEGE OF SCIENCE



ARCHAEOLOGICAL SCIENCE

GRADUATE STUDIES: M.Arch. Science and PhD

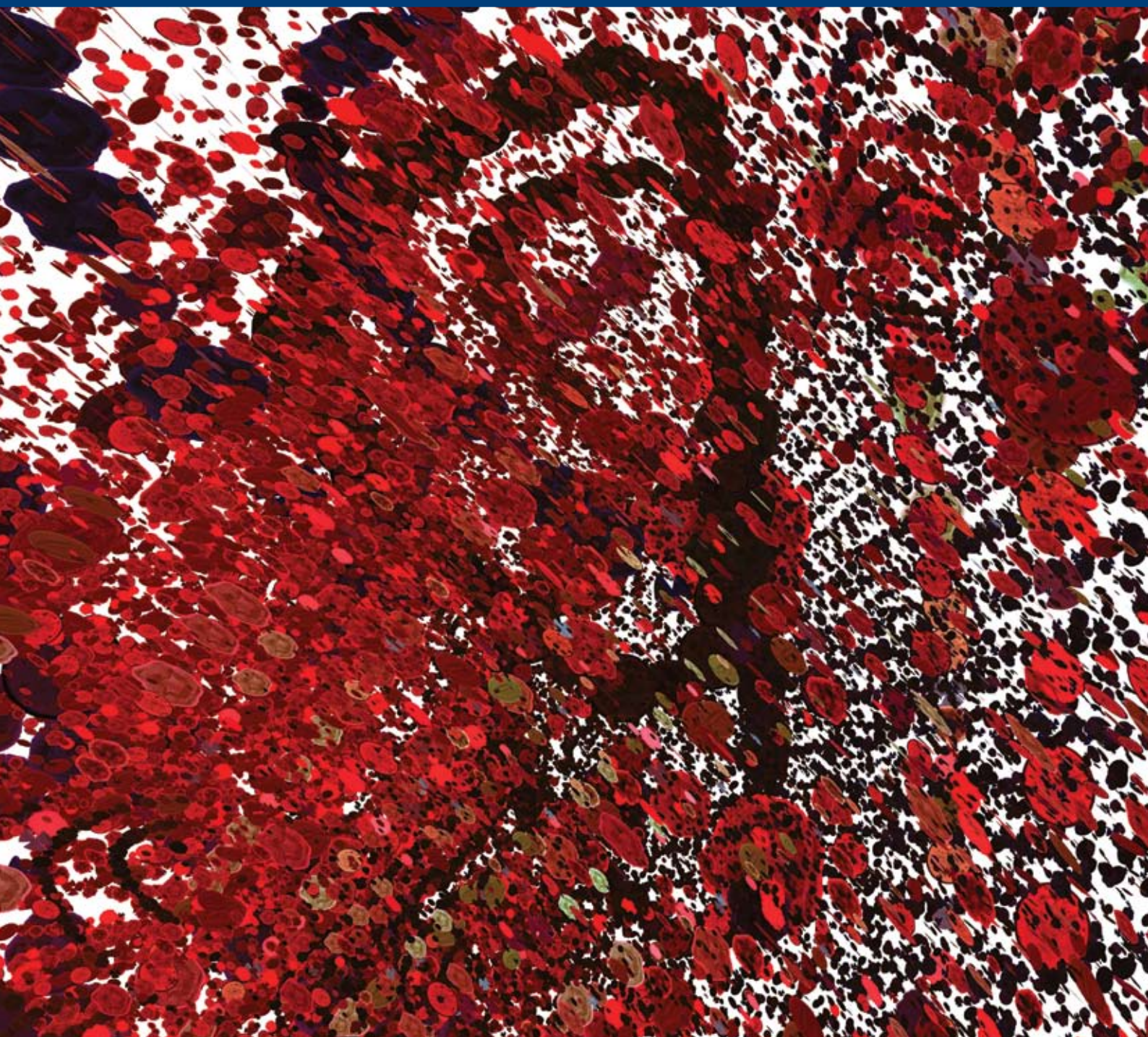


Image: Pierre Proske *Pollen 2* from Abstract Microecologies exhibition

Palaeoanthropology | Ceramics | Isotope Geochemistry | Geochronology | Materials Science
Geographic Information Systems and Remote Sensing | Lithics Studies | Forensic Archaeology
Past Landscapes | Residues | Heritage Management | Excavation | Biomolecules | Rock Art
Geoarchaeology | Ancient Diet and Disease | Palaeoecology | Museum Science | Zooarchaeology
Spatial Science | Climate Change | Archaeobotany | Quaternary Science | Dating Techniques

For details of the program contact: archaeological.science@anu.edu.au