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Research interests:

- Thermonuclear (type-I) X-ray bursts
 - bursts as a probe of the NS equation-of-state (EOS)
 - observations vs. theory, to constrain nuclear processes
- Accretion-powered millisecond pulsars
 - ongoing observational program to detect & characterise new examples
 - more rapidly-rotating neutron-stars constrain EOS
 - formation and evolution
- High-resolution X-ray imaging & spectroscopy
 - absorption in LMXBs, particularly Cir X-1
 - jets and emission lines in WD and NS

Instruments:

- *Rossi X-ray Timing Explorer (RXTE)*
- *Chandra*
- *XMM-Newton*

See <http://www.ph.unimelb.edu.au/~duncang> for more