

# Faculty of Business

## Proposed Honours Project Topics

### Discipline: Accounting

- How do Australian local government organisations cost and account for their outsourcing decisions?
- What are the deficiencies of Australian local government accounting systems in terms of providing information useful for managers to make appropriate decisions?
- What do Australian local government managers perceive to be the greatest challenges in attempting to improve their internal and external accounting systems?
- How do academic accounting researchers choose their research topics?
- What is the current state of historical research in accounting concerning Australia and what avenues remain to be more fully explored?
- What inroads have the specialist accounting history journals made into the mainstream scholarly accounting journals?

**Contact:** A/Prof Jayne Bisman

Campus: **Bathurst**

Discipline: Accounting

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- Review of annual report information provided online by Australian not-for-profit organisations

**Contact:** Mr Ken Crofts

Campus: **Bathurst**

Discipline: Accounting

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## Discipline: Economics/Finance

- A cost-benefit analysis of a single water authority for the Bathurst-Orange region.
- Estimating the recreation benefits for the Lake Canobolas Reserve.
- Experience curve analysis to develop projections of likely future costs of different forms of electricity generation in Australia.

**Contact:** Prof Kevin Parton

Campus: **Orange**

Discipline: Economics/Finance

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- A meta-analysis of Hedonic Wine Price Functions
- Measuring the identity of a co-operative
- Why do co-operatives fail?
- An empirical model of wine grape demand and supply in Australia
- Member Participation, Commitment, Attitudes and Performance in Co-operatives

**Contact:** Prof Eddie Oczkowski

Campus: **Wagga Wagga**

Discipline: Economics/Finance

Tel: +61 2 69332377 email: [eoczkowski@csu.edu.au](mailto:eoczkowski@csu.edu.au)

- Trends, patterns and determinants of foreign direct investment in Australia/China
- Product fragmentation in Australia's trade
- Role of migrant workers in meeting labour market needs in regional Australia

**Contact:** Prof Kishor Sharma

Campus: **Wagga Wagga**

Discipline: Economics/Finance

Tel: +61 2 69332752 email: [ksharma@csu.edu.au](mailto:ksharma@csu.edu.au)

- Economic Development in China
- Regional Development in Australia
- Labour Market Analysis

**Contact:** Prof John Hicks

Campus: **Bathurst**

Discipline: Economics/Finance

Tel: +61 2 63384234 email: [jhicks@csu.edu.au](mailto:jhicks@csu.edu.au)

- Australia, China Trade and Investment Relations. What can we learn?
- Recent Trends in Productivity and Efficiency in Australian Agriculture/Industry

**Contact:** Dr Yapa Bandara

Campus: **Wagga Wagga**

Discipline: Economics/Finance

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## Discipline: Information Technology

- LTSA-based Image Matting Algorithm
- Structured Constraints for Image Matting
- Image Filtering with Local Tangent Space Alignment
- Determine Global Coordinates in Mixture of t-Distribution Models
- L1 Gaussian Process Latent Variable Models
- Denoising and deblurring images
- Multitask Sparse Bayesian Relevance Vector Machines
- Incoherent Sparse and Low-Rank PCA
- Robust PCA Based Video Coding

**Contact:** Prof Junbin Gao

Campus: **Bathurst**

Discipline: Information Technology

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- Mini advertisement window Determination on TV display using eye tracker
- Abnormal Event Detection for Visual Surveillance
- 3D Video coding
- Automatic Fall Detection System for older People

**Contact:** Dr Manoranjan Paul

Campus: **Bathurst**

Discipline: Information Technology

Tel: +61 2 63384260 email: [mpaul@csu.edu.au](mailto:mpaul@csu.edu.au)

- Low-resolution image segmentation
- Secure the Cloud

**Contact:** Dr Lihong Zheng

Campus: **Wagga Wagga**

Discipline: Information Technology

Tel: +61 2 69332387 email: [lzheng@csu.edu.au](mailto:lzheng@csu.edu.au)

- Threats and countermeasures in low powered smart devices
- Cyber security and protection against identity theft
- Forensics computing – information hiding in mobile devices
- Security issues in cloud computing
- Application of wireless sensor networks in healthcare
- Wireless sensor networks in event detection
- Energy harvesting in wireless sensor networks
- Vehicle to vehicle ad hoc networks

**Contact:** Dr Tanveer Zia

Campus: **Wagga Wagga**

Discipline: Information Technology

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## Discipline: Information Technology

- A Technical Solution towards Privacy Issues Arising from the Use of Data Mining on Sensitive Data Sets.
- Tackling Data Mining Threats on Individual Privacy without Losing Enormous Benefits of Data Mining.
- Search Engine Efficiency Improvement through the Development of Ontology Based Semantic Search Algorithms.
- Application of Sophisticated Data Mining Techniques for Various Social Network Analyses Including Identification of “Good Guys” and “Bad Guys” for Various Purposes Such As National Security.
- On Line Security Threats and Ethical Issues Due to the Application of Various Data Mining Techniques.
- Data Cleansing through Corrupt Data Detection and Correction in Order to Achieve Better Pattern Discovery and Prediction.
- Data Quality Improvement through Missing Value Imputation.
- Extraction of Multiple Decision Trees from a Data Set for Better Data Analysis and Prediction.
- Distributed Data Mining Algorithm on Horizontally and Vertically Partitioned Data Sets Stored in Dispersed Locations.
- Privacy Preserving Data Mining on Distributed Data Sets Owned by Multiple Parties.
- A Novel Clustering Algorithm for Obtaining Multiple Sets of Clusters (Instead of Conventional Single Set of Clusters) Based on User Defined Significance Levels on Different Attributes.
- Spatial Clustering for Land Cover Classification Analysis.
- Parallel Processing of Various Data Mining Algorithms Including Artificial Neural Network Using GPU (Instead of CPU) Based on CUDA Architecture for Building Classifiers Faster.
- Complexity Reduction of Artificial Neural Network Algorithms.
- Logic Rules Extraction from Artificial Neural Networks.
- Development of an Intelligent Decision Support System for Better Water Management.
- Water Demand Forecasting by Pre-processing Data Sets Obtained from Satellite Images, Weather Station Data and Meteorological Data.
- A Novel Decision Tree Algorithm for Extraction of Hidden Patterns that are Generally Missed Out by Existing Algorithms.
- Natural Language Processing in Text Data Mining for Automatic Summarisation and Semantic Grouping of Documents.

**Contact:** Dr Zahid Islam

Campus: **Bathurst**

Discipline: Information Technology

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- Metaheuristic-based Optimisation for High Dimensional Functions
- Investigation on a Biologically Inspired Metaheuristic and Its Application To Computer Security
- Computational Intelligence-based Cluster Analysis
- Computational Intelligence for Anomaly Detection in Networks: An Investigation

**Contact:** Dr Maumita Bhattacharya

Campus: **Albury**

Discipline: Information Technology

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## Discipline: Management

- 'Cultural Safety' and appropriate managerial behaviour in cross-cultural business and social settings.
- How is Cultural Competence viewed by both MNC's and Host Cultures?
- Balancing business and managerial expectations of Corporate Culture with the business and managerial expectations of the host culture.
- In what way(s) does time away from one's Home Culture impact on a manager's values and attitudes towards the conduct of cross-border business?
- Career Perceptions of Generation Y and their attraction and retention by organizations.
- Cross-Cultural Adjustment / Adaptability
- Developing and Enhancing Cross-Border Business and Management Skills for Female Managers

**Contact:** Prof Alan Fish

Campus: **Wagga Wagga**

Discipline: Management

Tel: +61 2 69332527 email: [afish@csu.edu.au](mailto:afish@csu.edu.au)

- Training needs of health care staff in public hospitals in Australia
- Interactive leadership styles in MNCs
- Human resource management practices in regional firms in Australia
- Employability and Skill shortages in Australia

**Contact:** Dr Bhanugopan Ramudu

Campus: **Wagga Wagga**

Discipline: Management

Tel: + 61 2 69332696 email: [bramudu@csu.edu.au](mailto:bramudu@csu.edu.au)

- Organisational culture and leadership in hospital and surgical settings
- How middle managers negotiate competing roles during periods of organisational change
- Independent contractors and self-efficacy

**Contact:** Dr Melanie Bryant

Campus: **Wagga Wagga**

Discipline: Management

Tel: +61 2 6933 2574 email: [mebryant@csu.edu.au](mailto:mebryant@csu.edu.au)

- Mentoring – the relationship between formal mentoring programs and job satisfaction, motivation and commitment
- Management development- developing effective programs

**Contact:** Dr Pamela Mathews

Campus: **Wagga Wagga**

Discipline: Management

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- Factors contributing to successful export performance of regional SMEs

**Contact:** Dr Branka Krivokapic-Skoko

Campus: **Bathurst**

Discipline: Management

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## Discipline: Management

- The family contribution to decisions by professionals to relocate to regional Australia
- Coping strategies used by professionals to adjust to a regional relocation
- The use of technology in overcoming regional distances – from road warriors to virtual teams
- The impact on the family of atypical work for international employees.
- Home avoidance in working fathers – dysfunctional organisational commitment

**Contact:** Dr Debra Da Silva

Campus: **Albury**

Discipline: Management

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- How can information and communication technology be effectively employed to manage a Regional Business Network?
- How can Regional Business Networks contribute to resolving the skills shortages for trades in regional areas?
- What are the best ways for effectively managing change as Regional Business Networks progress through their evolutionary growth processes?
- What types of innovations or innovative practices are developed by Regional Business Networks?
- What are the most successful governance, membership and administrative structures for Regional Business Networks?
- What types (product, process, service) of innovation are being carried out by Australian businesses?
- How does size and location (urban versus region) affect the innovation practices of Australian businesses?
- How do the types of innovation in Australian businesses vary by industry?
- How effective has been the introduction of quality management practices in Australian Children's Hospitals been in terms of improving patient outcomes and administrative efficiency?
- What is the relationship between enneagram personality types and team roles?
- What is the relationship between enneagram personality types and styles of leadership?
- What strategies should the Social Science Faculties of Australian universities adopt in order to identify and commercialise their intellectual property?

**Contact:** Dr Glen Duncan

Campus: **Bathurst**

Discipline: Management

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## **Discipline: Management**

- Problems in occupational health and safety in Australia or perhaps in Central West of New South Wales;
- The Fair Work Australia Act 2009 – its impact on businesses and unions and non-unionised employees in the Central West of NSW;
- Marginalised sectors of the labour market in the Central West of NSW, for example under-employed and unemployed single mothers – this is a very important task I myself will be involved in over the next few years;
- The economic, social and political decline of the New South Wales wheat belt.
- Industrial relations and human resource management practices in the People’s Republic of China or in Hong Kong or in South Korea or in Malaysia.

**Contact:** Dr Robert Tierney

Campus: **Bathurst**

Discipline: Management

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- Innovation – combined with organisational learning, knowledge creation and transfer, sources and types of innovation in SMEs, business enterprise centres and other innovation support services, innovation networks innovation and regional development.
- Organisational change – impact of organisational learning and knowledge management.
- Manufacturing: manufacturing regional SMEs, networks and clusters, wine/tourism clusters and regional identity
- Sustainable management: managing sustainability issues and managing organisations sustainably.
- International business: stages of export development; domestic and international marketing strategies –particularly in the wine industry, but also small regional manufacturers
- Public sector management; public policy, particularly regional development policy, small business development policy. Indigenous business development policy, export development policy, innovation development policy.

**Contact:** A/Prof Geoff Bamberry

Campus: **Wagga Wagga**

Discipline: Management

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## **Discipline: Marketing**

- Identifying barriers to market orientation in a University.
- Are students consumers? Examining the changing relationship between students and universities.
- Identifying market oriented strategies for higher education providers.
- The role of leaders in creating a market oriented university.

**Contact:** Prof Mark Farrell

Campus: **Wagga Wagga**

Discipline: Marketing

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- To understand the relationship between entrepreneurship characteristics and business performance in the small business sector
- To understand the nature of market orientation in the small business sector
- To understand the role of psycho-social owner characteristics and business performance in the small business sector
- A cross-cultural study on the influence of service quality and psycho-social factors in high involvement services
- To explore the relationship between service factors and psycho-social factors in high involvement services using multiple regression

**Contact:** Dr Lanchi Snell

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Discipline: Marketing

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