Slide 1:   Background
- Student needs: focused topics for research
  project- they are vague-
       e.g. 'I will discuss food poisoning
       'I will analyse financial ratios'
- Collection of published research papers brought
  in by students
- List of titles of research papers and student
  theses

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Slide 2: Research paper titles
- *Performance comparison of trust-based reactive
  routing protocols*
- *Application of machine learning techniques for
  supply chain demand forecasting*
- *An empirical analysis of the relationship
  between project planning and project success*

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Slide 3: AWL Highlighter[1]

**• 19% AWL words
(vs 10. 5% in the AWL corpus)2**

Context Aware *Applications for* Young **Adults:
Design Implementation** and **Evaluation** of a
usable website

Segmentation of noisy digital curve for
approximation with Bezier

The **conceptual** *model* of the fashion *process*- Part
2: An **empirical investigation** of the micro-
subjective *level*

The Hug: an *exploration* of robotic form for Intimate
Communication

Using Mean-Shift Tracking *Algorithms for* Real-Time
Tracking of Moving **Images** on an Autonomous
Vehicle Testbed *Platform*

Time **varying** filter **interpretations** of Fourier
Transform and its **Variants**

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[1]AWL HIGHLIGHTER   [2]Nation and Coxhead

Slides 4, 5:
You can see what they are doing in there

Intellectual activities*:*
- *comparison* , investigation, *exploratory study/ exploration, diagnosis,*   analysis , evaluation, hypotheses, interpretations

What researchers are looking for
- evidence, *effects, relationship,* implications , features, aspects

What academic activities are like
- *systematic* , empirical , conceptual

Evaluation
- benefits, *success*, *effective*

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What researchers do
- design, *development* , *modelling application,* implementation
- isolation , *mapping* , allocation, *segmentation*, *profiling*, *forecasting, characterization,* approximation , , simulation,

Methods, processes, things
- techniques , *system*, project, protocols, *model,* process , design , strategies, methodology **,** *objects, management, process*

What they measure
- dimensions, consumption, perception**,** *rate*, *performance*

Purpose
- *using* (6),   *for*[3] (15)

[3] Fortanet et al. 1998, Zeiger (2000)

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Slide 6: Research paper titles
- *Performance comparison of trust-based reactive routing protocols*
- *Application of machine learning techniques for supply chain demand forecasting*
- *An empirical analysis of the relationship between project planning and project success*

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**Slide 7: A protocol for unpacking or constructing
        titles**
- What did the researchers/ authors do?
- What did they compare/ evaluate etc.
- The performance of what?
- How/ why/ where did they do it?
- What aspects or features did they….
- Predictive questions,
  e.g. How do you think they
       Why do you think they……

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Slide 8: Uses of the approach
- raise awareness of academic activities and concepts
- provide a bank of useful learnable vocabulary for academic activities which has been met in context
- encourage a critical approach to reading and writing
- can be adapted for exam or coursework questions or other micro corpora
- can be used with specialist and non-specialist groups

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Slide 9: The end
 J.A.Spencer@hw.ac.uk

Exploiting an incidental corpus: Using research paper titles to look inside the world of academia

Jenifer Spencer: Heriot-Watt University   J.A.Spencer@hw.ac.uk

Corpus: (List of titles of 33 texts brought in by students)
(AWL words in bold. Other words I identified as academic concepts or activities in italic).

Asset **allocation** decisions with managed futures: **evidence** of the **benefits** from *using* downside risks.

An **adaptive Structured** Light Pattern for the 3-D *profiling* of coloured *objects*
An *effective* examination **processing** *system*

Adaptive real-time particle filters *for* robot localization

Application of machine learning **techniques** *for* supply chain demand *forecasting*

Applications of ultrasonography in the reproductive *management* of Dux magnus gentis saginati

An **empirical analysis** of the *relationship* between **project** planning and **project** *success*

An *exploratory study* of the **consumer** decision **process** for intimate apparel

Addressing the needs of students from **diverse cultural** backgrounds
with respect to **Academic** Writing

Brands without boundaries The internationalisation of the **designer** retailer's brand
Consumer perception of five UK fashion retailers

Context Aware *Applications for* Young **Adults: Design Implementation** and **Evaluation** of a usable website

Design and **implementation** of a **distributed** object-oriented software architecture with support *for* real-time execution

Defending Wireless **Infrastructure** Against the **Challenge** of **Distributed denial** of Service attacks

Development of balanced score card **methodology**

Duality and the Slutsky **income** and **substitution** *effects* of increases in wage *rate*

Evaluation Of *Applications* Of Bacteriocins in Food Preservation, Particularly Against Foodborne Pathogenic and Spoilage Bacteria

Financial Pricing *Using* Formal Neural **Networks**

Hypotheses *for* **Image Features,** Icons and Textons

Isolation of Myobacteria from frozen fish destined *for* human **consumption**

Mapping the **dimensions** of **project** *success*.

Modelling thermal *performance* of a double facade building in a continental climate.
Memory *Profiling using* Hardware Counters

Performance comparison of trust-based **reactive routing protocols**

Sidescan sonar *segmentation using* texture descriptors and active contours

Simulation of Punched Card **Technology**

Spatio-Temporal Filter With **Adaptive** Multiple Outliers Rejecter

Structural and Mechanical **Aspects** of Embroidered Textile
Scaffolds *for* Tissue Engineering

Systematic noise *characterization* of a CCD camera: *application* to a multispectral *system*

Strategies of failure *diagnosis* in computer-controlled manufacturing *systems*: **empirical analysis** and **implications** for the **design** of **adaptive** decision support *systems*

Segmentation of noisy digital curve for **approximation** with Bezier

The **conceptual** *model* of the fashion *process*- Part 2: An **empirical investigation** of the micro-subjective level

The Hug: an *exploration* of robotic form for Intimate **Communication**

Using Mean-Shift Tracking Algorithms *for* Real-Time Tracking of Moving **Images** on an Autonomous **Vehicle** Testbed Platform

Time **varying** filter **interpretations** of Fourier **Transform** and its **Variants**

URL *tracking* tool *for* websites: An Open **source** management *system*

376 WORDS   72 awl   =19% of total

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AWL Highlighter
Available online at www.nottingham.ac.uk/~alzsh3/acvocab/**awlhighlighter**.htm