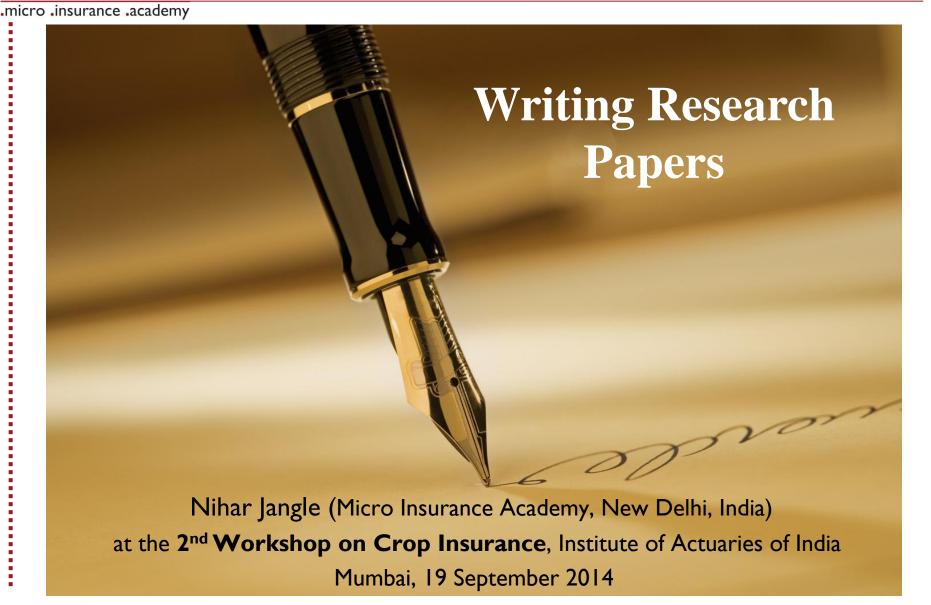


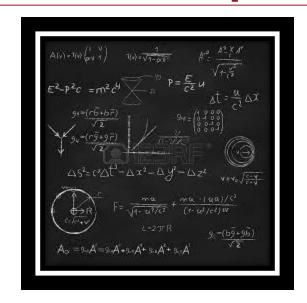
## Helping communities manage risks from the ground up.





## What is a Research Paper?

- A research paper can be on, e.g.:
  - New theory or new methodology
  - Analysis of a specific topic



- To be considered:
  - Factual, objective survey of all relevant existing literature
    - Cite don't plagiarise
  - Work on something that interests you!





- Make an outline
  - Topic?
  - Why is it significant?
  - What could be the research questions?
  - What background material is relevant?

• What similar work has been done?







### **Research Questions**

 Initially, draft the research questions before you start your analysis

 When you have data, you can judge which questions you can answer

 Remember, a convincing negative answer is an answer as well

 You may (or may not) wish to rephrase the original question to fit the actual data



#### Readers' Rule of Thumb

When finishing to read you research question, the reader of your introduction should think:

"How pertinent, why has nobody else thought of this before?"

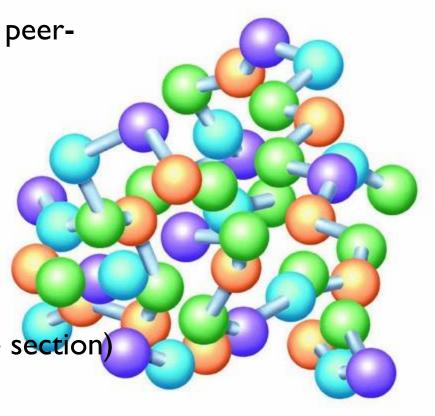




## Structure of Research Paper

Structure of research paper, e.g. for peer-reviewed journal:

- Abstract
- Introduction
- Methods (incl. materials and data)
- Findings (or Results)
- Discussion
- Conclusion (not always a separate section)
- Acknowledgements (optional)
- References
- Annexes (optional)





## Where to start with the writing?

- How to proceed without getting lost in the maze?
- DO NOT start in the beginning... start with the "Findings" section
  - or "Methods" section, if it is more a methodological paper

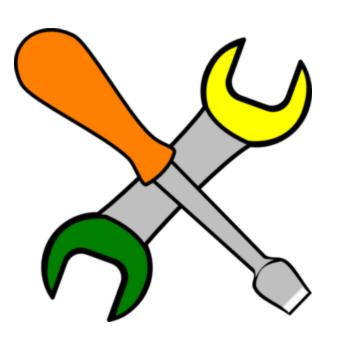




#### **Methods Section**

#### Methods should give details about:

- Material (e.g. questionnaires) and data used (e.g. what yield data)
- Methodologies used (e.g. sampling, statistical methods used for evaluation, field research)





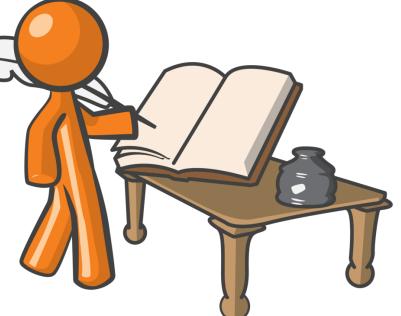
## **Findings Section I**

 Findings section typically main section of the paper (usually also in terms of relative size)

Include only your own findings

#### **Structure of Findings section**

- Objectively present your key results
- No interpretation
- In orderly and logical sequence
- Use past tense





## **Findings Section 2**

#### **Structure of Findings section (continued)**

- What items do you wish to include?
- What is the best way of presenting the items?
  - Text paragraph
  - Figure
  - Diagram
  - Table
- Decide on the order of presenting your data items
- State main insights explicitly and coherently













#### **Discussion Section**

- Interpret your results based on what was already known about the subject of investigation
  - Compare your findings to similar studies with a similar research focus
  - Including previous studies you may have done
- Focus on relationship between findings section and research question(s) / objective of paper (as described in introduction section)
  - Interpreting your findings, can your results provide answers to the research questions?
- What is the new understanding of the issues studied?
- Do not introduce new results
- State reservations







- I Intro:
  - Background: What we already know about the subject? Briefly description of problem
- N-T Need-to-Know: What is NEW in this paper (added value)
- Range: Clearly stated research question, hypothesis, thesis statement
- Objective: What the paper seeks to achieve?
- The introduction is a motivator designed to draw your reader into your topic. Consider several techniques for a "grabber":
  - An unusual fact; an interesting quote; an historic event; a provocative question; an anecdote, illustration, example
  - A common interest, relationship, belief, opinion



# Introduction Section: Chekhov's Rule of Thumb

- If a gun is hanging on the wall in the first scene of a play, it must be used before the end of the play.
- List the items that need to be included in the intro (Chekhov's rule)
- Decide on the order by which you lead your reader to the research question before you write the narrative



Anton Pavlovich Chekhov 29 Jan 1860 – 15 July 1904 Russian physician, dramaturge and author



#### **Conclusions Section**

- Conclusions should
  - Restate the thesis
  - Sum up the evidence that justifies your claims of the added value / new insights / findings
  - Conclude with policy implications of these findings
- Conclusions should not repeat the intro or the discussion
- Conclusions should be no longer than I page
- Clear and to the point





- Complete but concise description of your work to entice potential readers into obtaining a copy of the full paper.
- "Sell" your work.
- An abstract word limit of 150 to 200 words is common.
- An abstract should also have 4-5 key words.





#### What is Referencing?

- Important part of academic writing
- A way of referring to work of others to provide evidence and support for your own work
- Done to avoid plagiarism
- A reference list refers to all the books, articles and websites referred to in the paper.

#### Reference style

- Often pre-defined by journals
  - Otherwise use for example Harvard referencing style
- Different software available (BibTeX from LaTeX, EndNote, Zotero for MS Word



## **Final Drafting**

- Proof reading, proof reading ...
- Smooth transition between paragraphs
- Examine layout, content, and grammar of your paper
- Layout / presentation: margins, spacing, indentation, correct citation, references, page numbers etc.
- Tables and Figures: Should be labeled accordingly and properly numbered and captioned



