# **AstroCoffee**

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## Goals

- 1. Choose interesting idea (Selection)
- 2. Understand main idea of paper (Dissection)
- 3. Tell the most **streamlined** but complete narrative of the paper (**Presentation**)

## **Streamline**

- Understand the main idea.
- Ruthlessly pare away all unnecessary details.

## Both while reading and presenting!

- Continually assess interest of audience.
- Stick to 10 minutes (people will tune out by 15).
- Stop when you're done.

## **Driving**

#### Listen to the Presenter

Just drive. Let the Presenter navigate.

## Title, Authors, Abstract

- Show all three if possible.
- If not, show Title/Authors for a minute and then switch to the Abstract.

## **Visuals**

#### Plots.

- Fully describe plot axes, line types, colors, etc.
- What should we take away from a plot?

#### Avoid:

- equations
- tables
- big walls of text
- jumping to other papers/websites

## **Presenting**

#### 1. Motivation

- Few sentences of context
- Main problem and implications

## 2. Technique

Boil down methods to minimal description

#### 3. Results

Show and explain key plots.

## 4. Implications

## 5. Critical Analysis

- Leaps in logic? Unfounded assumptions?
- Incorrect physics?

## **Dissection**

## 1. Big Picture

- Read the **Title** carefully.
- Read the Abstract. Read it again. One more time.
- Read the Conclusions.

#### 2. Actual Pictures

- Skim through the Plots.
- 1—3 are critical. The rest are merely supporting.
- Understand the important ones.

#### 3. Words

- Read enough introduction and methods to present the logical flow of the paper.
- Read more explanation of key figures if unclear.

## Selection

## Interesting:

- Highly voted (though biased towards certain sub-fields)
- Well-known authors (also biased)
- Directly related to your research
- Re-assess before investing lots of time

#### Avoid:

- Crackpot papers (i.e., Drake equation)
- Highly technical papers
- Too far afield papers

## Goals

- 1. Find interesting idea (Selection)
- 2. Learn interesting idea (Dissection)
- 3. Share interesting idea (Presentation)