

# Inside-Out Growth in the Milky Way Disc

ASTR 511 Final Project

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## 1. INTRODUCTION

For my project I'm going to investigate the inside-out growth of galaxies, focussing specifically on the Milky Way. This is the idea that star formation in galaxies occurs first in the centre and builds outwards.

## 2. BACKGROUND/EARLY THEORIES

(Larson 1976)

## 3. OBSERVATIONS

### 3.1. *For*

(van Dokkum et al. 2013)

### 3.2. *Against*

(Goddard et al. 2017)

## 4. MODELS

(Frankel et al. 2019)

## 5. APPLICATIONS

(Banerjee et al. 2020)

## 6. FUTURE WORK

(Hogg et al. 2019)

## REFERENCES

- Banerjee, P., Wu, M.-R., & Yuan, Z. 2020, ApJL, 902, L34, doi: [10.3847/2041-8213/abbc0d](https://doi.org/10.3847/2041-8213/abbc0d)
- Frankel, N., Sanders, J., Rix, H.-W., Ting, Y.-S., & Ness, M. 2019, ApJ, 884, 99, doi: [10.3847/1538-4357/ab4254](https://doi.org/10.3847/1538-4357/ab4254)
- Goddard, D., Thomas, D., Maraston, C., et al. 2017, MNRAS, 466, 4731, doi: [10.1093/mnras/stw3371](https://doi.org/10.1093/mnras/stw3371)
- Hogg, D. W., Eilers, A.-C., & Rix, H.-W. 2019, AJ, 158, 147, doi: [10.3847/1538-3881/ab398c](https://doi.org/10.3847/1538-3881/ab398c)
- Larson, R. B. 1976, MNRAS, 176, 31, doi: [10.1093/mnras/176.1.31](https://doi.org/10.1093/mnras/176.1.31)
- van Dokkum, P. G., Leja, J., Nelson, E. J., et al. 2013, ApJL, 771, L35, doi: [10.1088/2041-8205/771/2/L35](https://doi.org/10.1088/2041-8205/771/2/L35)