

SHANY DANIELI

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EDUCATION

- 2015 – Present *Yale University*
PhD candidate in Physics, expected 2020
Advisor: Prof. Pieter van Dokkum
- 2014 – 2015 *Yale University*, M.Phil Physics
- 2013 – 2014 *Yale University*, M.Sc Physics
- 2009 – 2012 *Tel Aviv University*
B.Sc, Physics & Astronomy (Magna Cum Laude)
- 2004 – 2005 *The Hebrew University of Jerusalem*
Cadet in IDF Talpiot Program

RESEARCH INTERESTS

Galaxy formation and evolution; large scale structure; dark matter; dwarf galaxies; ultra-diffuse galaxies; low surface brightness imaging

SELECTED TALKS

- UConn, Astronomy Seminar (**Invited talk**) **2018**
‘Hunting Low Surface Brightness Galaxies with the Dragonfly Telephoto Array’
- The Lorentz Center, Leiden - ‘The Bewildering Nature of Ultra-diffuse Galaxies’ **2018**
‘The Size-Luminosity Relation in the Coma Cluster’
- The Lorentz Center, Leiden - ‘The Bewildering Nature of Ultra-diffuse Galaxies’ **2018**
‘Ultra Diffuse Galaxies in the Dragonfly Wide-Field Survey’
- University of Chicago - ‘Near-Field Cosmology with the Dark Energy Survey’s DR1 ’ **2018**
‘Hunting Low Surface Brightness Galaxies in the Local Volume with the Dragonfly Telephoto Array’
- The Hebrew University of Jerusalem, Cosmo Lunch (**Invited talk**) **2017**
‘Hunting Low Surface Brightness Galaxies with the Dragonfly Telephoto Array’
- Harvard-Smithsonian Center for Astrophysics, Lunch Talk **2016**
‘The Luminosity Function of the M101 Group’
- Tel Aviv University, Lunch Talk **2016**
‘Exploring the low surface brightness universe with the Dragonfly Telescope’

DESY, Zeuthen, 20th FCAL Collaboration Workshop
'Luminosity Spectrum from Acollinearity Using Bhabha Events at CLIC'

2016

CERN, Geneva, LCD meeting
'Studies on the Measurement of Differential Luminosity Using Bhabha Events at the Future e^+e^- Collider – CLIC'

2011

PUBLICATIONS

LEAD AUTHOR

1. **Danieli, S.**, van Dokkum, P., Conroy, C., Abraham, R. and Romanowsky, A.J.
Still Missing Dark Matter: KCWI High-Resolution Stellar Kinematics of NGC1052-DF2
2019, arXiv, 2536525

2. **Danieli, S.** and van Dokkum, P.
Revisiting the Size-Luminosity Relation in the Era of Ultra Diffuse Galaxies
2018, arXiv, 1811.01962D

3. **Danieli, S.**, van Dokkum, P. and Conroy, C.
Hunting Faint Dwarf Galaxies in the Field Using Integrated Light Surveys
2018, ApJ, 856, 69

4. **Danieli, S.**, van Dokkum, P., Merritt, A., Abraham, R., Zhang, J., Karachentsev, I. D., and Makarova, L. N.
The Dragonfly Nearby Galaxies Survey. III. The Luminosity Function of the M101 Group

CO-AUTHOR

5. van Dokkum, P., **Danieli, S.**, Cohen, Y., Merritt, A., Romanowsky, A.J., Abraham, R., Brodie, J., Conroy, C., Lokhorst, D., Mowla, L., O'Sullivan, E., Zhang, J.
A galaxy lacking dark matter
2018, Nature, 555, 629

6. van Dokkum, P., **Danieli, S.**, Cohen, Y., Romanowsky, A.J., Conroy, C.
The Distance of the Dark Matter Deficient Galaxy NGC 1052–DF2
2018, ApJ, 864, 18

7. Wasserman, A., Romanowsky, A.J., Brodie, J., van Dokkum, P., Conroy, C., Abraham, R., Cohen, Y., **Danieli, S.**
A Deficit of Dark Matter from Jeans Modeling of the Ultra-diffuse Galaxy NGC 1052-DF2
2018, ApJ, 863, 15

8. Cohen, Y., van Dokkum, P., **Danieli, S.**, Romanowsky, A.J., Abraham, R., Merritt, A., Zhang, J., Mowla, L., Kruijssen, J. M. D., Conroy, C., Wasserman, A.

The Dragonfly Nearby Galaxies Survey. V. HST/ACS Observations of 23 Low Surface Brightness Objects in the Fields of NGC1052, NGC1084, M96, and NGC4258

2018, Accepted to publication in ApJ, arXiv:1807.06016

9. van Dokkum, P., Cohen, Y., **Danieli, S.**, Kruijssen, J. M. D., Romanowsky, A. J., Merritt, A., Abraham, R., Brodie, J., Conroy, C., Lokhorst, D., Mowla, L., O'Sullivan, E., Zhang, J.

An Enigmatic Population of Luminous Globular Clusters in a Galaxy Lacking Dark Matter

2018ApJ, 856, 30

10. van Dokkum, P., Cohen, Y., **Danieli, S.**, Romanowsky, A., Abraham, R., Brodie, J., Conroy, C., Kruijssen, J. M. D., Lokhorst, D., Merritt, A., Mowla, L., Zhang, J.

A Revised Velocity for the Globular Cluster GC-98 in the Ultra Diffuse Galaxy NGC 1052-DF2

2018, RNAAS, 2b, 54

11. Merritt, A., van Dokkum, P., **Danieli, S.**, Abraham, R., Zhang, J., Karachentsev, I. D., and Makarova, L. N.

The Dragonfly Nearby Galaxies Survey. II. Ultra-Diffuse Galaxies near the Elliptical Galaxy NGC 5485

2016, ApJ, 833, 168

12. van Dokkum, P., Abraham, R., Brodie, J., Conroy, C., **Danieli, S.**, Merritt, A., Mowla, L., Romanowsky, A., Zhang, J.

A High Stellar Velocity Dispersion and ~100 Globular Clusters for the Ultra-diffuse Galaxy Dragonfly 44

2016, ApJL, 828, L6

13. Abraham, R., van Dokkum, P., Conroy, C., Merritt, A., Zhang, J., Lokhorst, D., **Danieli, S.**, Mowla, L.

Future Prospects: Deep Imaging of Galaxy Outskirts using Telescopes Large and Small

2016, arXiv: 1612.06415

OBSERVATIONAL EXPERIENCE

The Dragonfly Telephoto Array, Keck Telescope (KCWI, DEIMOS and LRIS), Hubble Space Telescope.

HONORS & AWARDS

2013 *Leigh Paige Award*, Yale Physics Department

2012 *Merit-based Memorial Scholarship*, Tel Aviv University

2010-2012 *Honors Program for undergraduate students*, Tel Aviv University

2010-2011 *Dean's list, B.Sc in Physics (top 5%)*, Tel Aviv University

2009 *Head of Intelligence Directorate Prize for Creativity*, Winning project for significant breakthroughs of intelligence.

- 2009 *Merit Certificate from Head of Intelligence Directorate, for exceptional contribution to the security of the state of Israel.*
- 2007 *Honored Cadet, officers training course (BAHAD 1).*

TEACHING & OUTREACH

- Summer 2016 *Banneker & Aztlán Summer Program*
Mentor
- 2013-2015 *Yale University: Teaching Assistant*
PHYS 200: Fundamentals of Physics
PHYS 180: University Physics
PHYS 171: University Physics for the Life Sciences II
PHYS 170: University Physics for the Life Sciences I
- 2013-2014 *Women In Science At Yale (WISAY)*
Mentor
- 2010-2011 *Tel Aviv University: Teaching Assistant*
Physics 3 for Engineers
Mathematical Methods for Physicists 2
Electronics
- 2011 *CERN, PH-LCD group*
Advisors: Dr. Lucie Linssen & Dr. Konrad Elsener
CLIC Physics and Detectors study

WORK EXPERIENCE

- 2011 – 2013 *Prime Minister's Office, Israel*
Physicist and analyst
- 2004-2009 *Israeli Defense Force, in an elite unit of the intelligence corps*
Discharge Rank: First Lieutenant. Performed several roles including:

Head of training section, Analysis & Research Department, Military Intelligence Directorate. Commanded 25 soldiers, including teaching high level technological and Intelligence subjects.

Analysis Officer, exclusive team in the Analysis & Research Department.