

Dr. Khaled Said

Contact Information	Postdoctoral Research Fellow School of Mathematics and Physics, The University Of Queensland St Lucia, Brisbane, QLD 4072, Australia	<i>Mobile:</i> +61 426 774 794 <i>E-mail:</i> k.saidahmedsoliman@uq.edu.au
Research Interests	<ul style="list-style-type: none">• Large Scale Structure and Galaxy Flows.• Photometric and Spectroscopic Surveys.• Observational Cosmology.• Galaxy Formation and Evolution.	
Research Appointments	<p>The University Of Queensland, St Lucia, Brisbane, QLD 4072, Australia</p> <ul style="list-style-type: none">• Postdoctoral Research Fellow with Prof. Tamara Davis. May 2020 – present <p>The Australian National University, Canberra ACT, Australia</p> <ul style="list-style-type: none">• The 2017 Gruber Foundation IAU Fellow• Taipan Postdoctoral Research Fellow with Prof. Matthew Colless. July 2017 – May 2020	
Education	<p>University of Cape Town</p> <p>PhD, Department of Astronomy, University of Cape Town, July 2017</p> <ul style="list-style-type: none">• Topic: <i>Peculiar Flow Fields in the Zone of Avoidance from the NIR Tully-Fisher relation</i>• Adviser: Prof. Renée C. Kraan-Korteweg <p>M.Sc., National Astrophysics and Space Science Programme, December 2013</p> <ul style="list-style-type: none">• Topic: <i>The NIR isophotal Tully-Fisher relation and its cosmological applications in the Zone of Avoidance.</i>• Adviser: Prof. Renée C. Kraan-Korteweg <p>B.Sc. (Honours), National Astrophysics and Space Science Programme, December 2011</p> <ul style="list-style-type: none">• Essay Topic: <i>Bulge and Disk Profiles of THINGS Galaxies.</i>• Adviser: Prof. Erwin de Blok	
Honors and Awards	<ul style="list-style-type: none">• 2017 winner of the Gruber Foundation and IAU Fellowship (50 000 USD)• Science Faculty PhD Fellowship at UCT, 2014 – 2016 (320 000 ZAR)• NRF Fellowship for M.Sc. at UCT, Jan 2012 – Dec 2013 (190 000 ZAR)• NRF Fellowship for Honours at UCT, Jan 2011 – Dec 2011 (95 000 ZAR)	
1st – Authored Publications	<p>[1] Khaled Said, Matthew Colless, Christina Magoulas, John R. Lucey, and Michael J. Hudson, “Joint analysis of 6dFGS and SDSS peculiar velocities for the growth rate of cosmic structure and tests of gravity”, <i>2020 MNRAS</i>, 497, 1275S</p> <p>[2] Khaled Said, Renée C. Kraan-Korteweg, and Lister Staveley-Smith, “The HI mass function in the Parkes HI Zone of Avoidance survey”, <i>2019 MNRAS</i>, 486, 1796S</p> <p>[3] Khaled Said, Renée C. Kraan-Korteweg, T. H. Jarrett, Lister Staveley-Smith and Wendy L. Williams, “NIR Tully-Fisher in the Zone of Avoidance. – III. Deep NIR catalog of the HIZoA galaxies.” <i>2016, MNRAS</i>, 462, 3386</p>	

- [4] **Khaled Said**, Renée C. Kraan-Korteweg, Lister Staveley-Smith, Wendy L. Williams, T. H. Jarrett and Christopher M. Springob, “NIR Tully-Fisher in the Zone of Avoidance. – II. 21 cm HI-line spectra of southern ZOA galaxies.” 2016, *MNRAS*, 457, 2366
- [5] **Khaled Said**, Renée C. Kraan-Korteweg and T. H. Jarrett, “On how to extend the NIR Tully Fisher relation to be truly all-sky,” 2015, *MNRAS*, 447, 1618
- [6] **Khaled Said**, Renée C. Kraan-Korteweg and T. H. Jarrett, “Galaxy peculiar velocities in the Zone of Avoidance,” *Proceedings of the 58th Annual Conference of the SA Institute of Physics, 8-12 July 2013. Durban, South Africa*,

Selected Research Talks

- “Cosmic Flows, Large-scale Structure & Visualisation, **Cape Town, South Africa**, 17 – 21 February 2020.
Invited Talk: The growth rate of cosmic structure and tests of gravity.
- The Annual Scientific Meeting of the Astronomical Society of Australia (ASA), **Melbourne, Australia**, 25 – 29 June 2018.
Invited Talk: The Taipan Peculiar Velocity Survey.
- Studying the Universe with GALaxy suRveys - Revealing the Unlimited in ShangHai (SUGAR-RUSH), **Shanghai, China**, 11 – 15 June 2018.
Invited Talk: The Taipan galaxy survey.
- Cosmic Visions Dark Energy Workshop, **Berkeley, California, USA**, 14 – 15 November 2017.
Invited Talk: The Taipan galaxy survey.
- The 3GC4 - HI Fidelity workshop, **Port Alfred, South Africa**, 24 October - 4 November 2016.
Invited Talk: Peculiar velocity flow field in the Zone of Avoidance.
- Large Scale Structure and Galaxy Flows, **Quy Nhon, Vietnam**, 3 – 9 July 2016.
Contribution Talk: Peculiar velocity flow field in the Zone of Avoidance.
- The Infrared Survey Facility: Past and Future, **Cape Town, South Africa**, 2 – 4 March 2016.
Contribution Talk: Deep NIR catalogue of the HI Zone of Avoidance galaxies.

References

- Prof. Tamara Davis** (e-mail: tamarad@physics.uq.edu.au)
- ARC Laureate Fellow, [School of Mathematics and Physics](#),
 - ◊ The University Of Queensland, St Lucia, Brisbane, QLD 4072, Australia
- Prof. Matthew Colless** (e-mail: matthew.colless@anu.edu.au)
- Director, Research School of Astronomy & Astrophysics,
 - ◊ The Australian National University, Mt Stromlo Observatory, Cotter Rd, Weston Creek, ACT 2611, Australia
- Prof. Renée C. Kraan-Korteweg** (e-mail: kraan@ast.uct.ac.za)
- Professor, Astronomy Department, University of Cape Town (UCT),
 - ◊ Department of Astronomy, University of Cape Town, Private Bag X3, Rondebosch 7701, South Africa.
- Prof. Lister Staveley-Smith** (e-mail: lister.staveley-smith@uwa.edu.au)
- Professor, ICRAR, International Centre for Radio Astronomy Research
 - ◊ ICRAR M468, The University of Western Australia, Crawley, Western Australia, 6009, Australia.
- Prof. Tom Jarrett** (e-mail: jarrett@ast.uct.ac.za)
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