Morningstar Qualitative Manager Research

Morningstar is a leading global provider of independent investment research, with more than 120 manager research analysts based across North America, Europe, Australia and Asia. The 14 member Australasian manager research team has over 14 years of average experience and has been producing qualitative manager research and ratings since 1999.

Morningstar’s qualitative manager research aims to determine which investments deserve the attention of investors and which do not. Morningstar assesses investment managers based on how we believe they will perform in the future over an economic cycle, against both peers and accepted benchmarks. Our model rewards managers that are open and transparent, have a well-run investment process and, importantly, are good fiduciaries of investors’ monies.

Morningstar is committed to the principle of independence. We do not charge asset managers to rate their strategies and associated vehicles, nor do we permit asset managers to commission ratings from us. This means that we determine our own coverage universe. Our coverage is organised across Morningstar Categories that span all major asset classes. We had full coverage on over 480 flagship strategies which mapped to over 3,000 underlying funds, ETFs and LICs at 31 July 2020.

There are three guiding principles that define the strategies Morningstar covers:

**Investment Merit** – As well as including some of the best-known strategies on offer globally, there is also scope for worthy but largely undiscovered strategies to fall within our review.

**Client Demand** – Given our user-pays philosophy, Morningstar responds to client demand to initiate strategy coverage. Correspondingly, we will cease coverage of funds and sectors where no substantial client demand exists.

**Strategy Size** – If there is a fund that has a large amount of assets, it is likely that coverage of the strategy will benefit a large number of investors and although there may not be current client demand, Morningstar may cover it in order to provide a view of the offering to existing investors.

Prior to any sector review Morningstar’s category review committee meets to determine the category constituents. Funds considered for inclusion in the review include the following; analysts’ best ideas, Morningstar Prospects, fund coverage requests and client demand.

The Morningstar Analyst Rating™ is the final outcome of a collaborative process based on a site visit, manager questionnaire, quantitative and holdings-based analysis of the portfolio and an assessment of all the key issues outlined, as illustrated in the diagram below.
Morningstar Fund Review Process

Following the conclusion of the manager review process, the Morningstar Australasian Manager Research Ratings Committee convenes to determine which investments deserve the attention of investors and which do not. This committee is responsible for the governance and oversight of the rating outcomes and consists of senior members of the manager research team and can include senior members from the Morningstar global analyst group. The entire Morningstar manager research team participates in the ratings process, but voting is limited to the APAC directors of manager research, the sector lead and lead strategy analyst.

The Morningstar Analyst Rating for funds is expressed on a five-tier scale running from Gold to Negative. For actively managed funds, the top three ratings of Gold, Silver, and Bronze all indicate that our analysts expect the rated investment vehicle to produce positive alpha relative to its Morningstar Category index over the long term, meaning a period of at least five years. For passive strategies, the same ratings indicate that we expect the fund to deliver alpha relative to its Morningstar Category index that is above the lesser of the category median or zero over the long term. The Analyst Rating does not express a view on a given asset class or peer group; rather, it seeks to evaluate each strategy and associated vehicle within the context of an appropriate benchmark and peer group.

Ratings for active strategies should be interpreted as follows, where performance expectations refer to performance over a holding period of at least five years, and where alpha is calculated relative to the standard Morningstar category index:

| Gold |

These are our top recommendations within their Morningstar Categories. Our evaluation of their key pillars in the context of the fees charged at the share-class level ranks them in the top 15% of all investments with expected positive net-of-fee alpha in their category.
Silver

These sit just below Gold but are also among our strongest investment ideas within their Morningstar Categories. Our evaluation of their key pillars in the context of the fees charged at the share-class level ranks them in the next 35% of all vehicles with expected positive net-of-fee alpha in their category.

Bronze

We do not expect these investments to perform as well as Gold or Silver offerings, but we still expect them to deliver positive net-of-fee alpha. Our evaluation of their key pillars in the context of the fees charged at the share-class level ranks them in the bottom 50% of all vehicles with expected positive net-of-fee alpha in their category.

Neutral

We expect these investments to deliver net-of-fee alpha that is less than or equal to zero. Our evaluation of their key pillars in the context of the fees charged at the share-class level ranks them in the top 70% of all vehicles with net-of-fee alpha less than or equal to zero in their category.

Negative

These are the worst investments within their Morningstar Categories in terms of our expected net-of-fee alpha. Our evaluation of their key pillars at the price level for the rated vehicle and associated share class(es) ranks them in the bottom 30% of all vehicles with expected net-of-fee alpha that is less than or equal to zero in their category.

Morningstar may also use two other designations in place of a rating:

Under Review

This designation means that a change at a rated fund requires further review to determine the impact on the rating.

Not Ratable

This designation is used only where we are providing a report on a new strategy or on a strategy where there are no relevant comparators, but where investors require information as to suitability.
Morningstar Analyst Rating Distribution for Australasian Funds at 31 July 2020

Morningstar Prospects

The Morningstar Prospects list highlights strategies that the Manager Research believe are worthy of additional investor attention. Such investments likely have enduring competitive advantages and long-term appeal, but have so far not met our coverage criteria. Morningstar evaluates funds for inclusion based on our standard 5P framework. Inclusion on the list does not guarantee that a strategy will be subject to full analyst coverage, and strategies can still move to full coverage without being on the Prospects list.
Annual Manager Research Schedule

Sector reviews form the basis of the Morningstar manager research process. Full reviews are conducted on annual 12-monthly cycles. The following schedule shows Morningstar Australasia’s intended fund research schedule. Morningstar reserves the right to alter this schedule on the basis of developments or unforeseen circumstances.

**Review Schedule**

<table>
<thead>
<tr>
<th>Review Category</th>
<th>Sector Lead</th>
<th>Commencement Date</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian Equities Small Cap</td>
<td>Michael Malseed</td>
<td>May 2020</td>
<td>August 2020</td>
</tr>
<tr>
<td>Australian Equities Large Cap</td>
<td>Ross Macmillan</td>
<td>June 2020</td>
<td>November 2020</td>
</tr>
<tr>
<td>Fixed Interest</td>
<td>Tim Wong</td>
<td>October 2020</td>
<td>February 2021</td>
</tr>
<tr>
<td>Alternatives</td>
<td>Simon Scott</td>
<td>November 2020</td>
<td>March 2021</td>
</tr>
<tr>
<td>Global Equities</td>
<td>Michael Malseed/Andrew Miles</td>
<td>January 2021</td>
<td>May 2021</td>
</tr>
<tr>
<td>Asia &amp; Emerging Markets</td>
<td>Michael Malseed/Andrew Miles</td>
<td>January 2021</td>
<td>May 2021</td>
</tr>
<tr>
<td>Global Listed Infrastructure</td>
<td>Edward Huynh</td>
<td>February 2021</td>
<td>June 2021</td>
</tr>
<tr>
<td>REITs</td>
<td>Ksenia Zaychuk</td>
<td>February 2021</td>
<td>June 2021</td>
</tr>
<tr>
<td>New Zealand Equities</td>
<td>Ross Macmillan</td>
<td>March 2021</td>
<td>July 2021</td>
</tr>
<tr>
<td>Multisector</td>
<td>Simon Scott</td>
<td>March 2021</td>
<td>July 2021</td>
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</table>

**Communication of Ratings:**

Once ratings have been decided, they are communicated to subscribers through the publication of our fund reports. Subscribers are notified of ratings changes through a daily research update email.

No external parties are alerted to ratings changes prior to report publication.

Fund coverage requests can be submitted to Aman Ramrakha.

**For any queries, please contact:**

Tim Murphy, CFA, CAIA                     Aman Ramrakha, CIMA
Director of Manager Research              Director of Manager Research Ratings
+61 2 9276 4436 (AUS)                    +61 499 550 986 (AUS)
tim.murphy@morningstar.com                aman.ramrakha@morningstar.com
### Morningstar Manager Research Team Qualifications, Tenure, Industry Experience

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Qualifications</th>
<th>Tenure with Morningstar (years)</th>
<th>Industry Experience (years)</th>
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</thead>
<tbody>
<tr>
<td>Tim Murphy</td>
<td>Director of Manager Research, APAC</td>
<td>CFA, CAIA, Masters of Applied Finance, Post Graduate Diploma Accounting, Bachelor of Applied Finance, FFIn</td>
<td>15</td>
<td>19</td>
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<tr>
<td>Aman Ramrakha</td>
<td>Director of Manager Research Ratings, APAC</td>
<td>Bachelor of Commerce, Graduate Diploma of Applied Finance &amp; Investments, Diploma of Financial Planning, Certified Investment Management Analyst.</td>
<td>2</td>
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<tr>
<td>Tim Wong</td>
<td>Director, Fixed Income Strategies</td>
<td>CFA, Bachelor of Commerce</td>
<td>11</td>
<td>16</td>
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<tr>
<td>Michael Malseed</td>
<td>Associate Director, Equity Strategies</td>
<td>Bachelor of Economics</td>
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<tr>
<td>Simon Scott</td>
<td>Associate Director, Multi-Asset &amp; Alternative Strategies</td>
<td>Bachelor of Laws Hons, Master of Liberal Arts, Post Graduate Certificate in Business Administration, Graduate Certificate in Corporate Finance</td>
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<tr>
<td>Matt Wilkinson</td>
<td>Senior Analyst</td>
<td>Bachelor of Engineering Hons, Masters of Applied Finance</td>
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<td>Ross MacMillan</td>
<td>Senior Analyst</td>
<td>Bachelor of Commerce</td>
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<tr>
<td>Andrew Miles</td>
<td>Senior Analyst</td>
<td>Bachelor of Mathematics Hons</td>
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<td>9</td>
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<tr>
<td>Christopher Franz</td>
<td>Senior Analyst</td>
<td>CFA, Bachelor of Financial Analysis</td>
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<tr>
<td>Kongkon Gogoi</td>
<td>Senior Analyst</td>
<td>Bachelor of Science Hons, Masters of Finance</td>
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<tr>
<td>Zunjar Sanzgiri</td>
<td>Senior Analyst</td>
<td>Masters of Management Studies, Bachelor of Electrical Engineering</td>
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<tr>
<td>Chris Tate</td>
<td>Analyst</td>
<td>Bachelor of Commerce</td>
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<td>10</td>
</tr>
<tr>
<td>Edward Huynh</td>
<td>Analyst</td>
<td>CAIA, Bachelor of Business Administration &amp; Psychology, Graduate Certificate of Applied Finance</td>
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<tr>
<td>Ksenia Zaychuk</td>
<td>Analyst</td>
<td>Masters of Applied Finance, Bachelor of Business Management</td>
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<td>5</td>
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<tr>
<td>Average</td>
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</tr>
</tbody>
</table>
Morningstar Manager Research Team Biographies

Tim Murphy, CFA, CAIA
Director of Manager Research, APAC, Manager Research Morningstar

Tim Murphy is director of Asia-Pacific manager research for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for leading qualitative research on managed funds, exchange-traded funds, and listed investment companies, as well as managing Morningstar’s model portfolios and relationships with consulting and adviser clients in the APAC region, including Australia, New Zealand, Korea and India.

Before joining Morningstar in 2005, Murphy worked in equity derivatives trading with Optiver Australia, and prior to that, in mortgage securitisation with Macquarie Bank, as well as in corporate credit analysis roles with HSBC and Commonwealth Bank. He worked on secondment to Morningstar’s London office in 2007. He comments regularly about investing issues in the media.

Murphy holds bachelor’s and master’s degrees in applied finance and a postgraduate diploma in accounting, all from Macquarie University. He also holds the Chartered Financial Analyst® and Chartered Alternative Investment Analyst designations. He has completed the Investment Management Workshop at Harvard Business School, is a Fellow of Finsia, and has been a master’s level guest lecturer on asset management at both Macquarie University and Western Sydney University.

Aman Ramrakha
Director, Manager Research Ratings, APAC Manager Research, Morningstar

Aman Ramrakha is director of manager research ratings – Australia with Morningstar, a leading global provider of independent investment research. He is responsible for leading qualitative research on Asia-Pacific fund managers (excluding China, Hong Kong and Singapore) and their funds.

Before joining Morningstar in 2018, Ramrakha worked at the Commonwealth Bank of Australia as executive manager, research, where he led the research function for the wealth management and advice business. He has held technical, consulting and advisory roles at BT Financial Group, Colonial First State, KPMG and the Commonwealth Private Bank.

Ramrakha has a Bachelor of Commerce, Graduate Diploma of Applied Finance and Investments, Diploma of Financial Planning and is a Certified Investment Management Analyst®
Tim Wong is a director for fixed-income strategies at Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Before joining Morningstar in 2008, Wong was a senior financial analyst at the New South Wales Treasury.

Wong holds a Bachelor of Commerce in finance and information systems from the University of New South Wales. He also holds the Chartered Financial Analyst® designation.

Michael Malseed is an associate director for equity strategies for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Before joining Morningstar in 2016, Malseed spent seven years as a senior investment analyst at Bennelong Australian Equity Partners and was responsible for fundamental stock research across a wide variety of sectors in the Australian share market. Prior to Bennelong, he worked for ING Investment Management as a large-cap equity analyst for four years, following a number of other various roles within the business.

Malseed holds a bachelor’s degree in economics and finance from the University of Sydney.
Simon Scott is an associate director for multi-asset & alternative strategies for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds. Before joining Morningstar in 2018, Scott worked as a Senior Investment Analyst for Macquarie Private Wealth. After initially joining as Head of Product Sourcing and Origination where he sourced and structured bespoke investment opportunities for clients, Scott added further responsibilities for unlisted fund research and the delivery of model portfolios and asset allocation advice. Prior to joining Macquarie, Scott spent 5 years with Standard & Poor’s Fund Ratings where he was an Associate Director and Sector Head for Structured Products and Alternative Investments. Prior to coming to Australia, Scott worked in the UK in Structured Credit and Alternative Fixed Income for a private investment and advisory firm and within the derivatives businesses of a number of global investment banks.

Scott holds a Bachelor of Laws (Hons) from University of London and a Master of Liberal Arts (Finance) from Harvard University where he was conferred the Dean’s List Academic Achievement Award. He holds an additional Graduate Certificate in Corporate Finance, from Harvard University and a Postgraduate Certificate in Business Administration from Heriot-Watt University.

Ross Macmillan is a senior manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds. Until late 2015, Macmillan was the industrial equities sector head, managing analysts in Sydney, Hong Kong, Shenzhen, and Mumbai.

Before joining Morningstar in 2011, Macmillan was a senior equity analyst for Baillieu Holst Stockbroking and Commonwealth Securities, covering industrial equities in the Australian market.

Macmillan holds a Bachelor of Commerce (accounting, finance, and systems) from the University of New South Wales. He is a chartered accountant, a professional stockbroker, and a fellow of Finsia.
Matthew Wilkinson is a senior manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Before joining Morningstar in 2015, Wilkinson worked for Propex Derivatives in the fixed-interest and equity futures market as a trader analysing and managing exposures. Prior to that, he had a career in engineering, working on local and overseas projects, most recently in commercial management roles.

Wilkinson holds a master’s degree in applied finance from Macquarie University and a bachelor’s degree in civil engineering from the University of Sydney.

Andrew Miles is a senior manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Miles joined Morningstar in 2011. He initially worked in the institutional software division in London and Sydney before moving into research in 2015.

Miles has a bachelor’s degree in mathematics from the University of Reading and holds the UK Investment Management Certificate.

Christopher Franz, CFA is a senior manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Prior to joining Morningstar Australasia in 2019, Franz spent three years as an analyst at Morningstar Research Services LLC in Chicago, where he focused on U.S. small and mid-cap strategies. Before joining Morningstar in 2016, Franz spent four years as a research analyst for Westwood Holdings Group, where he focused on external manager research and due diligence.

Franz holds a bachelor’s degree in financial analysis from Creighton University. He also holds the Chartered Financial Analyst® designation.
Kongkon Gogoi is a senior manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Before joining Morningstar in 2020, Gogoi was associated with JP Morgan Private Bank covering global long short equity hedge funds and ESG focused alternative investment strategies for bank’s asset allocation program in the capacity of an LP. Prior to JP Morgan, he worked for Mercer Investment Consulting as a due diligence analyst focusing on long only and long short equity strategies.

Gogoi holds a bachelor’s degree in science with honors in Physics from Guahati University. He also holds a master’s degree in Finance from ICFP, Delhi.

Zunjar Sanzgiri is a senior manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Before joining Morningstar in 2020, Sanzgiri worked for CRISIL (an S&P Global company) for more than four years, in the mutual fund research team. He was primarily responsible for conducting quantitative & qualitative research on India-domiciled funds.

Sanzgiri holds a master’s degree in Management Studies, with a specialization in Finance, from Mumbai University’s Jamnalal Bajaj Institute of Management Studies. Prior to that, he completed his bachelor’s degree in Electrical Engineering from Mumbai University.

Chris Tate is an analyst in the manager research team at Morningstar, a leading global provider of independent investment research. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Before joining Morningstar in 2020, Tate worked for over a decade in financial services including several years as a financial adviser. He was responsible for advising clients and creating holistic financial advice addressing asset allocation, portfolio construction and retirement planning.

Tate holds a bachelor’s degree in commerce from Deakin University.
Ksenia Zaychuk is a manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. She is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Before joining Morningstar in 2019, Zaychuk worked for Commonwealth Bank of Australia in Advice Research team maintaining Approved Product List for a network of advisers and assisting them with building model portfolios for their clients. Prior to that, she held a number of roles in Wealth Management with BT Financial Group.

Zaychuk holds a master’s degree in applied finance from Curtin University and a bachelor’s degree in business management from Murdoch University.

Edward Huynh is a manager research analyst for Morningstar Australasia Pty Ltd, a wholly owned subsidiary of Morningstar, Inc. He is responsible for conducting qualitative research on Australian and New Zealand fund managers and their funds.

Prior to joining Morningstar in 2019, Huynh worked within several financial advice firms most recently within Perpetual Private as a financial adviser. He was responsible for advising clients and creating strategic financial advice addressing investment strategy, asset allocation and retirement planning. Before joining Perpetual, he was a derivatives trader.

Huynh has a bachelor’s degree in business administration and psychology from Macquarie University and a Graduate Certificate of Applied Finance from Kaplan Professional. He also holds the Chartered Alternative Investment Analyst designation.
About Morningstar

Morningstar, Inc. is a leading provider of independent investment research in North America, Europe, Australia, and Asia. The Company offers an extensive line of products and services for individual investors, financial advisors, asset managers, retirement plan providers and sponsors, and institutional investors in the debt and private capital markets. Morningstar provides data and research insights on a wide range of investment offerings, including managed investment products, publicly listed companies, private capital markets, debt securities, and real-time global market data. Morningstar also offers investment management services through its investment advisory subsidiaries, with approximately $205 billion in assets under advisement and management as of June 30, 2020. The Company had operations in 27 countries as of June 30, 2020. For more information, visit www.morningstar.com/company.