



Gender and ethnic pay gaps: An industry level portrait for New Zealand

Commissioned by the Ministry for Women

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Disclaimer



These results are not official statistics. They have been created for research purposes from the Integrated Data Infrastructure (IDI) and Longitudinal Business Database (LBD) which is carefully managed by Stats NZ. For more information about the IDI and LBD please visit https://www.stats.govt.nz/integrated-data/.

The results are based in part on tax data supplied by Inland Revenue to Stats NZ under the Tax Administration Act 1994 for statistical purposes. Any discussion of data limitations or weaknesses is in the context of using the IDI for statistical purposes, and is not related to the data's ability to support Inland Revenue's core operational requirements.



Research aims

- Aim 1: Estimation of gender, ethnic, and intersectional (gender-ethnic) pay gaps by industry in New Zealand over 2016 to 2022
- Aim 2: Exploration of structural and contextual drivers of pay gaps
- Building on previous work on gender (Pacheco et al., 2019) and ethnic (Cochrane & Pacheco, 2022) pay gaps, our contribution is focus on *industry level* and estimation of *intersectional pay gaps*
- This presentation reports results for:
 - Gender pay gap: women vs. men
 - *Māori pay gap*: Māori vs. Europeans
 - Pacific pay gap: Pacific vs. Europeans
 - Asian pay gap: Asians vs. Europeans



Method

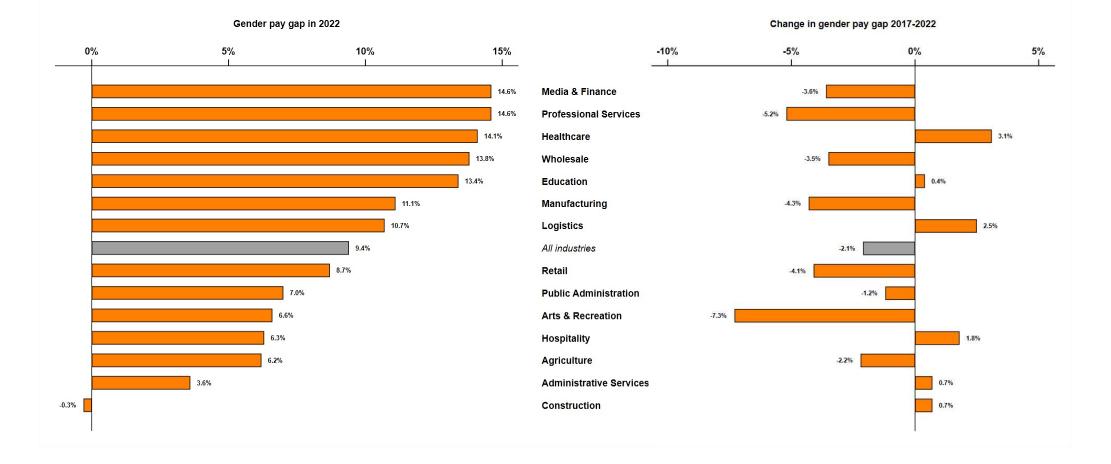
- Data source is Household Labour Force Survey 2016-2022
- Sample is paid employees aged 16 to 64 years pooled over two years (2016/2017, 2017/2018, 2021/2022)
- 'Pay' defined as *hourly earnings*
- Industry measured with 14 categories (collapsed ANZSIC)
- Pay gaps calculated as:

Men's mean real hourly earnings – women's mean real hourly earnings × 100 Men's mean real hourly earnings

• Drivers of pay gaps investigated with Blinder-Oaxaca decomposition

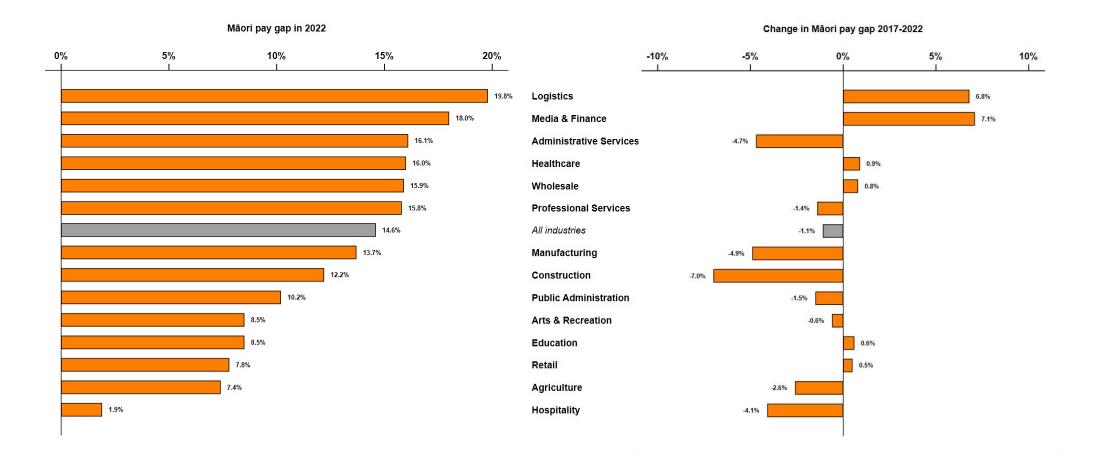


Gender pay gap level and trend

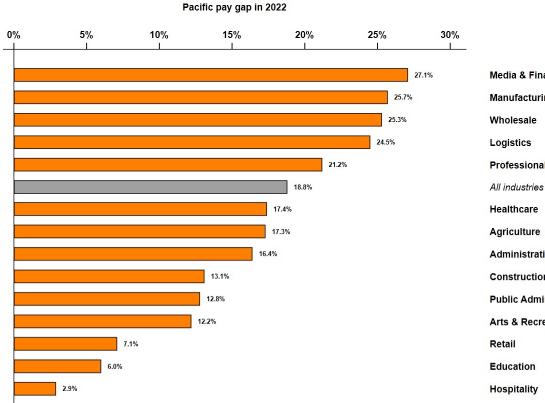


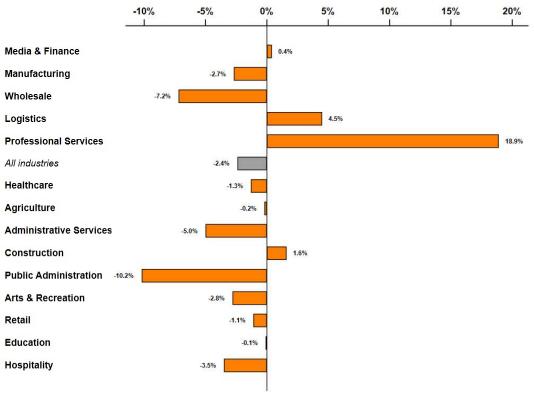


Māori vs. European pay gap level and trend



Pacific vs. European pay gap level and trend

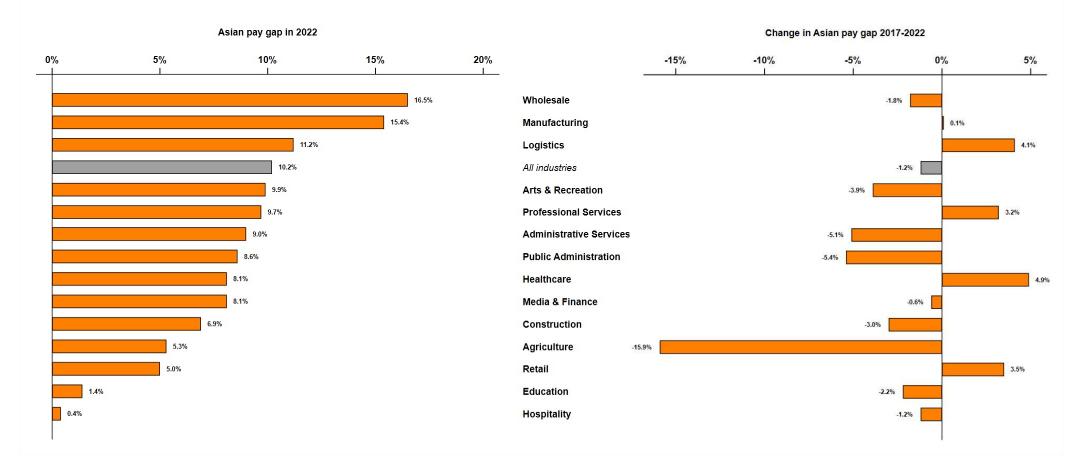




Change in Pacific pay gap 2017-2022

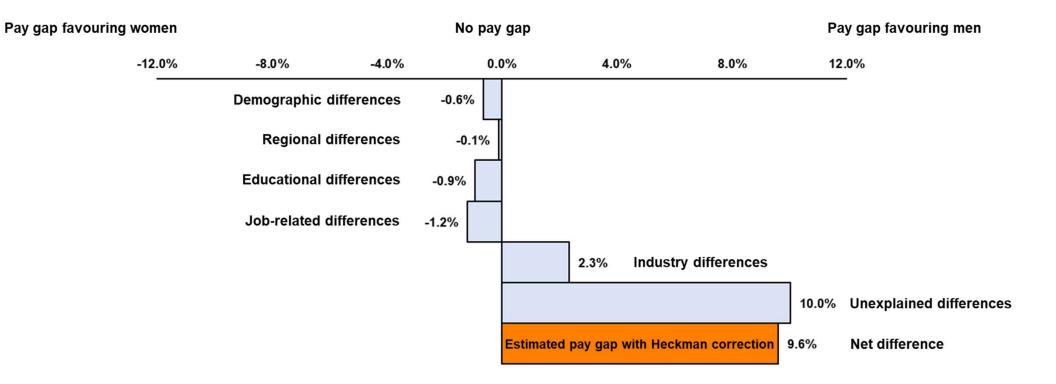


Asian vs. European pay gap level and trend



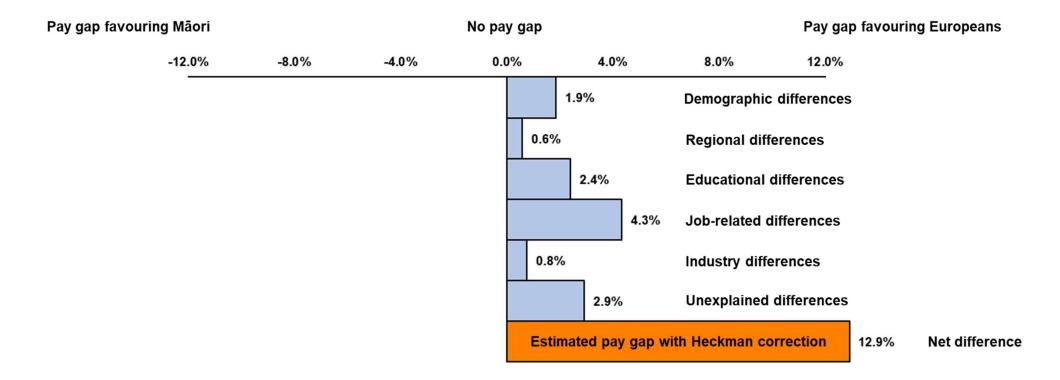


Gender pay gap for All industries – Blinder-Oaxaca decomposition



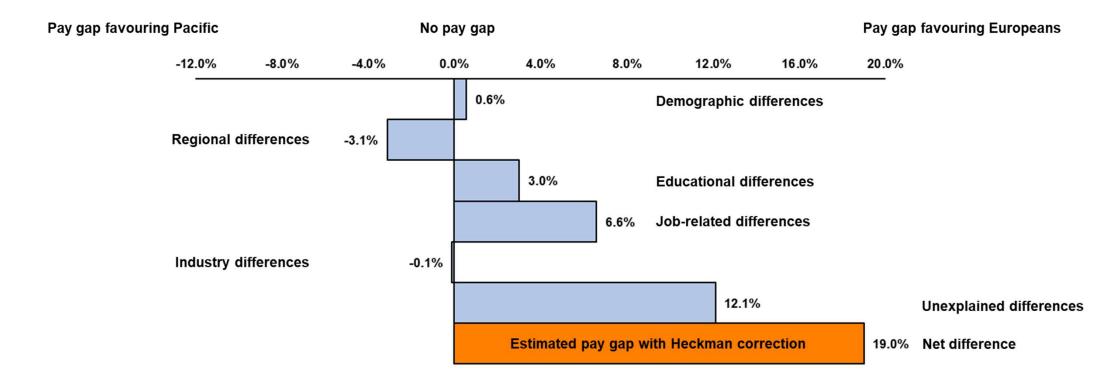


Māori pay gap for All industries – Blinder-Oaxaca decomposition



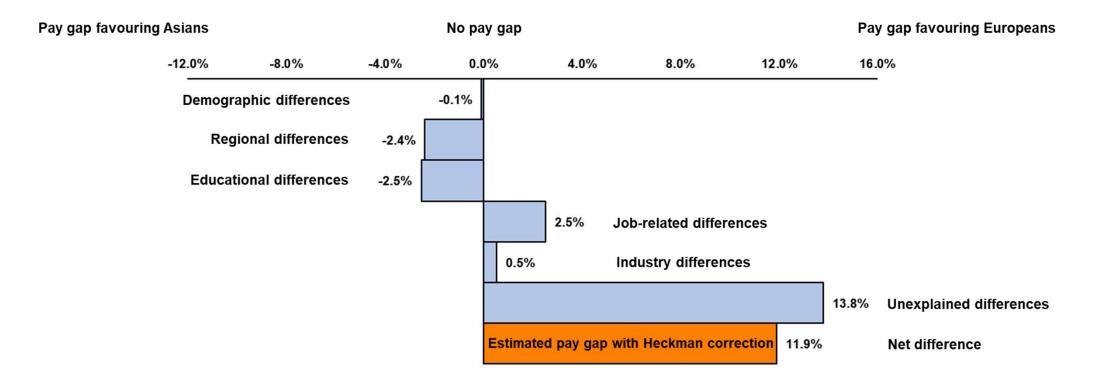


Pacific pay gap for All industries – Blinder-Oaxaca decomposition





Asian pay gap for All industries – Blinder-Oaxaca decomposition



Conclusions



- In 2022, pay gaps ranged from 9.4% (gender pay gap) to 18.8% (Pacific pay gap)
- High-paying industries (e.g., Media & Finance, Professional Services) tend to have larger pay gaps, while low-paying industries (e.g., Hospitality, Retail) tend to have smaller ones
- Across all industries, gender and ethnic pay gaps have decreased over recent years
- Gender, Pacific, and Asian (all-industry) pay gaps are mostly unexplained, while Māori pay gap is mostly explained
- Provides industry-specific benchmarks against which organisations can compare their own pay gaps
- Monitoring of impact of pay parity initiatives and pay equity settlements
- NZPRI has begun a new research programme looking at what workplace practices/policies are empirically associated with lower pay gaps



Industry variable

	ANZSIC level 1		Collapsed to 14 industries
1	Agriculture, Forestry, and Fishing	1	Agriculture
2	Mining		
3	Manufacturing	2	Manufacturing
4	Electricity, Gas, Water and Waste Services	3	Construction
5	Construction		
6	Wholesale Trade	4	Wholesale
7	Retail Trade	5	Retail
8	Accommodation and Food Services	6	Hospitality
9	Transport, Postal and Warehousing	7	Logistics
10	Information Media and Telecommunications	8	Media & Finance
11	Financial and Insurance Services		
12	Rental, Hiring and Real Estate Services		
13	Professional, Scientific and Technical Services	9	Professional Services
14	Administrative and Support Services	10	Administrative Services
15	Public Administration and Safety	11	Public Administration
16	Education and Training	12	Education
17	Health Care and Social Assistance	13	Healthcare
18	Arts and Recreation Services	14	Arts & Recreation
19	Other Services		

Explanatory variables used in decomposition



• Earnings-related characteristics used in Blinder-Oaxaca decomposition:

Category	Variables	
Demographic characteristics	Sex, age, age-squared, ethnicity, country of birth	
Household characteristics*	Sole parent, partnered status, number of dependent children, household income	
Regional characteristics	Region of residence	
Education characteristics	Highest qualification attained	
Job-related characteristics	Occupation, part-time work, permanent job, job tenure, employment continuity, union membership	
Industry characteristics	Industry of main job	

* Household characteristics are excluded from the decomposition in order to identify the Heckman selection model.



Gender pay gap – HLFS vs. Inland Revenue

