

Gender Differences in the Use of Social Media: Australian Postgraduate Students' Evidence



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Abstract: This study investigates the differences between male and female usage of social media in Australia. The sample consists of ten postgraduate students at the Queensland University of Technology who use social media platforms, including six males and four females. Nine themes and 41 codes are identified. This study analyses five major themes, namely, personal life, professional life, sharing, leaders or followers, and competition. Six participants consider themselves as either leaders or followers in their social media usage, making this theme the most acknowledged theme. However, three participants use social media for their personal lives, and social media challenge three participants. Therefore, personal life and competition are the least important cause of social media usage. This study contributes by shedding some light on social media usage among postgraduate students. It helps universities to choose among different social media platforms for their educational purposes for their postgraduate students.

Keywords: Australia, Female, Gender, Male, Postgraduate Student, Social Media.

I. INTRODUCTION

This study investigates the differences between male and female usage of social media in Australia. Social media are web-based tools that enable their users to communicate with each other and exchange resources (Gould, 2013)^[1], which currently play an important role across many aspects of life (Kietzmann, Hermkens, 2011)^[2], Manzoor and Khan, 2019)^[3]. They reinforce the sense of belonging and reduce the distance among people (Almenara-Niebla and Ascanio-Sánchez, 2020)^[4]. People share their personal experiences on social media platforms such as Facebook (Almenara-Niebla and Ascanio-Sánchez, 2020)^[4]. Nearly two billion people have used social media as of 2014, of which Facebook has the highest number of active users (Statista, 2014)^[5]. Though various studies suggest the effects of gender differences on social media usage there is not a clear understanding of how males and females differ in their social media usage (Kwon and Wen, 2010)^[6]. This research aims to fill this gap by answering the research question of how do males and females differ in their use of social media in Australia?

Prior evidence suggests a relationship between gender and linguistic choices (Bamman, Eisenstein, 2014)^[7], Herring and Paolillo, 2006)^[8]. For example, males and females prefer informational and interaction words, accordingly (Herring and Paolillo, 2006)^[8]. Males prefer formal and explicit, whereas females prefer deictic and contextual language (Heylighen and Dewaele, 2002)^[9]. Males use more content-related, while females use more style-related factors (Argamon, Koppel, 2003)^[10]. Males and females are more likely to write filter and diary blogs, accordingly (Herring and Paolillo, 2006)^[8]. Males tweet affirmations like yeah and yea, however, females tweet more emoticons, ellipses (...), expressive lengthening (noowaaay), complex punctuation (!! and ?!), and transcriptions of backchannels (ah, hmm) (Rao, Yarowsky, 2010)^[11]. Males use the term dude to satisfy their desire for homosocial solidarity without compromising their heterosexuality (Kiesling, 2004)^[12].

This study is motivated by prior research failure to analyze male and female differences in their use of social media among Australian postgraduate students. For example, Evers, Albury (2013)^[13] investigated the use of social media among young Australians (16 to 22 years old). Wright and Rubin (2017)^[14] assessed the relationship between sexual contents in social media and risk among Australian undergraduate students. This study contributes by shedding some light on social media usage among postgraduate students. It helps universities to choose among different social media platforms for their educational purposes for their postgraduate students. Moreover, it shows how males and females treat the information in different platforms, facilitating universities' planning.

The rest of this paper is organized as follows: Section 2 reviews past studies, Section 3 describes this study's methodology, Section 4 reports and discusses the findings, and Section 5 provides a conclusion.

II. LITERATURE REVIEW

Social media are "a group of Internet-based applications that build on the ideological and technological foundations of Web 2.0, and that allow the creation and exchange of User Generated Content" (Kaplan and Haenlein, 2010, p. 60)^[15]. Social media can

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have various applications such as collaborative projects, blogs, content communities, social networking sites, virtual game worlds, and virtual social worlds (Kaplan and Haenlein, 2010) ^[15]. Different applications enable communications, information sharing, and collaboration (Anttiroiko and Savolainen, 2011) ^[16]. Social media are used for different purposes. For example, they help to track disease rates (Paul and Dredze, 2011) ^[17], psychological well-being (De Choudhury, Counts, 2013) ^[18], and other behavioral, psychological, and medical phenomena (Kosinski, Stillwell, 2013) ^[19]. Moreover, they are used to imply demographic attributes such as native language (Argamon, Koppel, 2009) ^[20], origin (Rao, Yarowsky, 2010) ^[11], and location (Jones, Kumar, 2007) ^[21]. Furthermore, they are used for educational purposes (Pal and Misra, 2019) ^[22]. Chatting and messaging are common among social media users (Gross, 2004) ^[23], Vasan, 2016) ^[24].

Social media such as Facebook can improve people's psychological wellbeing (Grieve, Indian, 2013) ^[25]. People use social media to maintain long-term relationships and support their friends (Anderson, Fagan, 2012) ^[26]. Facebook and Twitter are commonly used social media platforms because they have user profiles, permit to make friends (or follow on Twitter), and include social networks that enable users to meet friends of friends (Boyd and Ellison, 2007) ^[27]. People use Facebook to communicate work-related matters to their friends rather than to conduct any work (Madge, Meek, 2009) ^[28]. For example, students use Facebook to share news regarding their assignments rather than to complete the assignment. People use Facebook to receive personal information and view relationships among different users (Karakayali and Kilic, 2013) ^[29]. Facebook profiles can reveal an individual's personality (Back, Stopfer, 2010) ^[30]. Moreover, the type of shared information provides a good picture of the individual's personality (Matzler, Renzl, 2008) ^[31].

A profile picture is an important part of a social platform (Zheng, Yuan, 2016) ^[32]. The picture can provide important information regarding the user such as time, location, and companions (Karakayali and Kilic, 2013) ^[29]. A negative perception regarding the profile picture can affect the user's well-being. Gender can affect the choice of the profile picture. For example, females are more likely to choose attractive profile pictures (Kapidzic and Herring, 2015) ^[33]. A profile picture's attractiveness affects the likelihood of being befriended with females attracting greater attention than males (Seidman and Miller, 2013) ^[34]. Moreover, gender differences exist in online image-based self-presentations (Yang and Li, 2014) ^[35] and affect stereotyping on selfies (Döring, Reif, 2016) ^[36].

Social media platforms such as Twitter are important parts of Personal Learning Environments (Reed, 2013) ^[37] and empower people's networking (Simoes and Mota, 2010) ^[38] to gain knowledge (Couros, 2010) ^[39]. Twitter is used in higher education for recruitment, marketing, and social communication (Palmer, 2013) ^[40]. It can extend teaching practices beyond their formal means (Evans, 2014) ^[41]. Twitter is used to enhance learning through opinion and content exchange (Conole and Alevizou, 2010) ^[42] and activities such as storytelling (Fernández Sánchez, Revuelta Domínguez, 2012) ^[43]. Its hashtags are used for class discussions and debates (McArthur and Bostedo-Conway, 2012) ^[44]. Backchannels which refer to using Twitter to enhance interaction in face-to-face lessons are used for learning purposes (Kwak, Lee, 2010) ^[45]. Research suggests positive outcomes regarding Twitter and students' learning (Carpenter and Krutka, 2014) ^[46], Badge, Johnson, 2012) ^[47], Rinaldo, Tapp, 2011) ^[48]. Students have a positive perception regarding the relationship between Twitter and their learning (McArthur and Bostedo-Conway, 2012) ^[44] and consider Twitter as a credible source (Johnson, 2011) ^[49].

Students are active users of different social media platforms (Duggan, Ellison, 2015) ^[50], using them for academic and non-academic purposes (Kim, Sin, 2014) ^[51]. Social media are used to improve students' engagement in academic activities (Špiranec and Zorica, 2010) ^[52]. For example, some institutions use collaborative environments to enhance their students' learning. Moreover, some libraries through their guidelines and resources guide their students' engagement with different platforms (Witek and Grettano, 2012) ^[53]. Social media affects students' information behavior (Chen, Sin, 2015) ^[54] because students are not often attentive in their information gathering (Connaway, Dickey, 2011) ^[55]. They usually do not verify the information that they obtain in different social media platforms (Kim, Sin, 2014) ^[51]. Furthermore, they may assess the credibility of a social media platform through imprecise means such as its site's design (Lim and Simon, 2011) ^[56].

Prior social science research suggests differences between males and females. For example, females live longer than males (Marengoni, Angleman, 2011) ^[57], their work preferences are different (Su, Rounds, 2009) ^[58], they use different types of language in social media (Huffaker and Calvert, 2005) ^[59], females are generally more active in social media (Sap, Park, 2014) ^[60], and males prefer Twitter (Mislove, Lehmann, 2011) ^[61]. Gender differences are examined across blogs (Goswami, Sarkar, 2009) ^[62], Yahoo search queries (Jones, Kumar, 2007) ^[21], and Twitter (Liu and Ruths, 2013) ^[63]. Females are main users of Facebook and online pinboard Pinterest, whereas males use music-sharing sites such as last.fm or Reddit which sometimes include misogynistic contents (Women, 2012) ^[64]. Females like to compare their physical attractiveness with online photos (Haferkamp and Krämer, 2011) ^[65]. Moreover, they are more likely to perform reassurance-seeking behaviors (Starr and Davila, 2008) ^[66].

Males more often upload online videos and use video-sharing applications (Lenhart, Madden, 2007) ^[67]. They are more likely to play video games and visit video websites such as YouTube (Rideout, Foehr, 2010) ^[68]. However, females prefer to create and share videos and are more likely to video chat (Lenhart, 2012) ^[69]. Males use social platforms to meet new people and make friends (Herring and Kapidzic, 2015) ^[70] and may join social network sites that are different from their offline peer circles (Barker, 2009) ^[71]. However, females use social platforms to communicate with their friends and strengthen their current

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relationships (Herring and Kapidzic, 2015) ^[70]. Males and females post different contents to their profiles. Males share self-promoting contents and sexual pictures, whereas females use cute pictures (Peluchette and Karl, 2008) ^[72]. Gender affects the choice of the profile picture (Zheng, Yuan, 2016) ^[32]. Overall, males and females visit different sites and perform different activities in their visited sites. Therefore, this study investigates the following research question:

How do males and females differ in their use of social media in Australia?

III. METHODOLOGY

A. Data Collection

A qualitative approach helps to thoroughly examine participants' experiences in explanatory research through various research methods (Hennink, Hutter, 2010) ^[73]. Therefore, it is chosen for this study to obtain a better understanding of males and females usage of social media (Tracy, 2012) ^[74]. A focus group helps to identify different participants' perspectives. Further, each participant can contribute, by commenting on points raised by other participants (Powell and Single, 1996) ^[75]. This study uses a focus group to discover significant areas (Morgan, 1997) ^[76].

B. Sample

The suitable number of participants in a focus group is between eight to 12 people (Krueger and Casey, 2009) ^[77]. A representative of ten postgraduate students at the Queensland University of Technology who use social media platforms, including six males and four females are chosen. Five open-ended questions together with probing questions are asked in an interview of 30 minutes. Note takers observe the non-verbal expressions of participants. The session is audio recorded and transcripts are made available for data analysis. The identities of participants are kept confidential throughout the analysis. Tables 1 to 7 present the demographic characteristics of participants.

Table 1. Age Categories of Participants of this Study

Age	Male	Female
Under 18	0	0
18-29	3	3
30-49	3	0
50+	0	1
Total	6	4

Table 2. Social Media Usage of Participants of this Study

Age	Male	Female
Facebook	6	3
Instagram	0	1
Twitter	3	0
Pinterest	0	1
LinkedIn	4	3
Google+	2	3
Myspace	1	0
Tumblr	1	0
WeChat	1	1

Table 3. Frequency of Social Media Usage of Participants of this Study

	Many times per day	Few times per day	Once per day	Few times per week	Once a week	Few times per month	Once a month	Less than once a month	Never
Facebook	5	2	2	0	0	0	0	0	1
Instagram	0	0	1	0	0	0	0	1	8
Twitter	0	0	1	0	0	1	0	1	7
Pinterest	0	0	0	1	0	0	0	1	8
LinkedIn	0	0	2	2	0	3	1	0	2
Google+	1	2	1	0	1	0	0	0	5
Myspace	0	0	0	0	1	0	0	0	9

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Tumblr	0	0	0	0	0	0	1	0	9
WeChat	2	0	0	0	0	0	0	0	8

Table 4. Frequency of Social Media Usage of Male Participants of this Study

	Many times per day	Few times per day	Once per day	Few times per week	Once a week	Few times per month	Once a month	Less than once a month	Never
Facebook	4	1	1	0	0	0	0	0	0
Instagram	0	0	0	0	0	0	0	1	5
Twitter	0	0	1	0	0	1	0	0	4
Pinterest	0	0	0	0	0	0	0	1	5
LinkedIn	0	0	2	0	0	2	1	0	1
Google+	1	0	0	0	1	0	0	0	4
Myspace	0	0	0	0	1	0	0	0	5
Tumblr	0	0	0	0	0	0	1	0	5
WeChat	1	0	0	0	0	0	0	0	5

Table 5. Frequency of Social Media Usage of Female Participants of this Study

	Many times per day	Few times per day	Once per day	Few times per week	Once a week	Few times per month	Once a month	Less than once a month	Never
Facebook	1	1	1	0	0	0	0	0	1
Instagram	0	0	1	0	0	0	0	0	3
Twitter	0	0	0	0	0	0	0	1	3
Pinterest	0	0	0	1	0	0	0	0	3
LinkedIn	0	0	0	2	0	1	0	0	1
Google+	0	2	1	0	0	0	0	0	1
Myspace	0	0	0	0	0	0	0	0	4
Tumblr	0	0	0	0	0	0	0	0	4
WeChat	1	0	0	0	0	0	0	0	3

Table 6. Devices Used by Participants of this Study

	Male	Female
Desktop	4	2
Laptop	5	3
Tablet (IPAD)	3	2
Mobile Phone	6	4

Table 7. Frequency of Devices Used by Participants of this Study

	Frequently		Occasionally		Never	
	Male	Female	Male	Female	Male	Female
Desktop	2	0	3	2	1	2
Laptop	1	1	4	2	1	1
Tablet (IPAD)	2	0	1	2	3	2
Mobile Phone	4	2	2	2	0	0

C. Coding

This study uses open and axial coding for data analysis. Open coding leads to develop concepts, categories, and properties. Moreover, it brings connections between a category and its sub-categories (Pandit, 1996) [78]. Axial coding helps to build a theoretical framework through making connections between different categories and their sub-categories (Corbin and Strauss, 2007) [79]. This study identifies nine main themes (higher-level coding) and 41 categories (lower-level coding). Personal life, professional life, sharing, leaders or followers, competition, relationship, geographical distance, lack of desire about social media, and non-verbal expressions while answering are the main themes.

IV. RESULTS

A. *PersonalLife*

Personal life is an identified theme, incorporated into two different codes. Three participants use social media for their personal lives, making personal reasons the least important cause of social media usage. Males use social media to find a partner because a male participant mentions that "To be very honest when I started using social media it was when I was 15 years old so as a teenager, I wanted to find girlfriends." However, both genders use social media for recreational reasons because it is mentioned by both genders. A male participant mentions that "I like when I go to Facebook when I read a bad comment from other people about one thing... Just feel like crazy when I saw a crazy comment about one thing", and a female participant mentions that "It's a matter of our recreation, just to have a break." Hence, recreation is a cause of social media usage without gender differences affecting it.

B. *ProfessionalLife*

This study identifies professional life as the next theme, incorporated into four different codes. Five participants use social media for their professional lives, making professional reasons the second important reason to use social media. Males use social media to maintain their professional contacts because a male participant mentions that "LinkedIn help us to be connected with the professionals." However, females support employers' use of social media for their business, because a female participant mentions that "If you're looking to hire someone you might even look at their LinkedIn and their Facebook." Nevertheless, both genders use social media to increase their work opportunities and promote themselves as professionals, because it is mentioned by 4 participants. A participant mentions that "Yeah so the trigger would be work", and another participant mentions that "I think it's the same idea I would say like yeah I'm a very good boy professional on LinkedIn." Thus, professional reasons are other reasons to use social media without gender differences affecting it.

C. *Sharing*

This study identifies sharing as its next theme, showing the content types that males and females share. Sharing is incorporated into three different codes. Four participants use social media to share different materials, making sharing the second-lowest cause of social media usage. Both genders use social media to share pleasurable things because a male participant mentions that "That's very typical probably us Asians but that's what I do and all my friends do when they eat something nice, they share it on their Facebook", and a female participant mentions that "When eating something very, very delicious I will share them with my friends." However, males use social media to share news and their interest in different universities, because it is mentioned by two participants. A male participant mentions that "You find a video, you find it in CNN you put it there and then people start commenting on and that new videos come up", and another male participant mentions that "For example when I used to apply to different universities for admission, I got lots back with different faculties or different universities so I could see their interest, their recent works and share my interest." Hence, males are more likely to share the news. Therefore, gender differences influence the way social media relate to different people's news consumption level.

D. *Leaders or Followers*

This study identifies leaders or followers as the next theme, incorporated into three different codes. Six participants consider themselves as either leaders or followers in their social media usage, making this theme the most acknowledged theme. Both genders wish to initiate a discussion on Facebook. For example, a male participant mentions that "So normally like in terms of being initiated probably what I go and read about a news article or something so I might upload the video about the crash that recently happened." However, they dislike initiating a discussion on LinkedIn. For example, a female participant mentions that "It's usually because someone has contacted me...or whatever...or they've endorsed me or whatever and I've gone one and had a look." Nevertheless, some males dislike initiating a discussion on Facebook because it is mentioned by two male participants. A male participant mentions that "But I don't like information...just to measure dislikes things on Facebook because sometimes I need to check with all the customer feedback anytime and anywhere." Thus, females are more likely to initiate a discussion on social media. Consequently, gender differences can influence different people's initiatives to use social media.

E. *Competition*

This study identifies competition as the next theme, incorporated into three different codes. Social media challenge three participants, making competition the least important cause of social media usage along with personal life. Social media challenge both genders regarding their physical fitness because a male participant mentions that "Yeah I mean if I see a six-pack on a guy I start working out right away after", and a female participant mentions that "Well personally it challenges me to do other things, so for example if I've seen a friend of mine who was with me in the school has now run 10km I'm like seriously if I can't run 10km by the end of this month there's something wrong with me." Social media do not challenge some males, because it is mentioned by a male participant. The male participant mentions that "I don't feel competitive actually. They are doing well; I don't have a

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problem with that.” However, social media challenge females to trek to nice places, because it is mentioned by a female participant. The female participant mentions that “You know you see people trekking nice places and you’re like oh I could go there, that’s a nice thing to do.” Therefore, social media are more likely to challenge females. Thus, gender differences affect how people are challenged by different social media. Figure 1 depicts the conceptual model of this study.

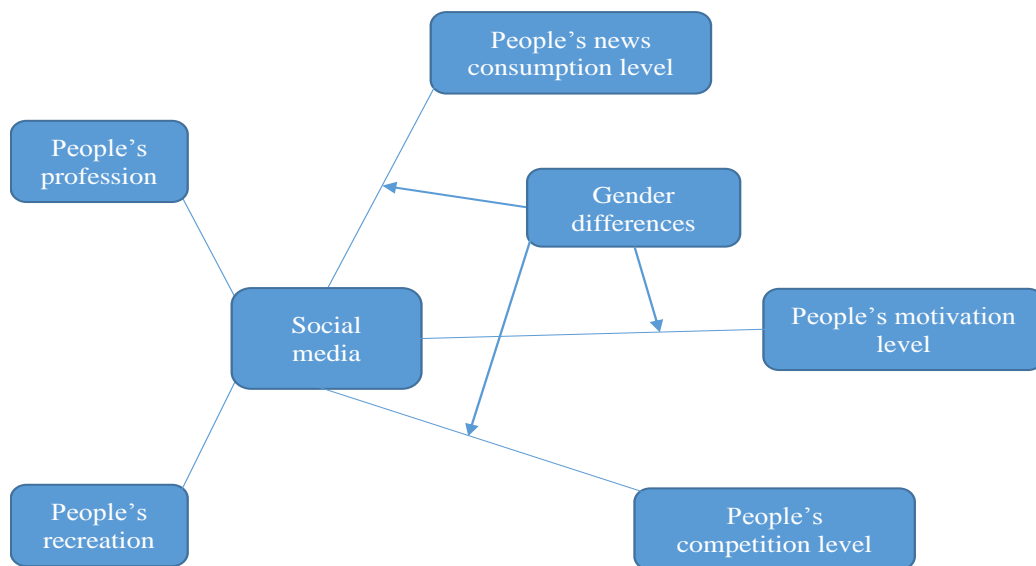


Figure 1. Conceptual Model of this Study

V. CONCLUSION

Social media can be defined as “applications, services, and systems that allow users to create, remix, and share content.” (Junco, 2014, p. 6) ^[80]. Social media usage is “the multiplicity of activities individuals may participate in online” (Smith and Gallicano, 2015, p. 83) ^[81]. People use different social media platforms to discuss their opinions, share news, and connect with other people (Hung, Li, 2011) ^[82]. Social media affects different aspects of students’ life. For example, social media is used to share information and academic interests among students, engage students, obtain a better understanding regarding students’ activities, create study groups, improve e-textbooks by using them as a teaching tool, increase students’ desire to learn the required courses, facilitate communication among students and working professionals, and help to conduct research (Lau, Lui, 2017) ^[83], Cox and McLeod, 2014) ^[84]. Some universities use different social media platforms such as Twitter or Facebook to improve their teaching performance (Lau, 2017) ^[85].

This study investigated the differences in male and female usage of social media in Australia. It was motivated by prior research failure to analyze male and female differences in their use of social media among Australian postgraduate students. The sample consisted of ten postgraduate students at the Queensland University of Technology who use social media platforms, including six males and four females. Nine themes and 41 codes were identified. This study analyzed five major themes, namely, personal life, professional life, sharing, leaders or followers, and competition. Leaders or followers were acknowledged by six participants, whereas personal life and competition were acknowledged by three participants. This study contributes by shedding some light on social media usage among postgraduate students. It helps universities to choose among different social media platforms for their educational purposes for their postgraduate students. Further, it shows how males and females treat information on different platforms, facilitating universities’ planning.

This study suggests that social media may relate to people’s recreation (Wood, Guerry, 2013) ^[86] and their profession (Greysen, Kind, 2010) ^[87], without gender differences affecting them. Moreover, it shows that males are more likely to share news on social media, suggesting that gender differences may influence the way social media relate to people’s news consumption level. It found that females are more likely to initiate a discussion on social media, suggesting that gender differences influence the way social media relate to people’s motivation level. Findings show that social media are more likely to challenge females, suggesting that gender differences influence the way social media relate to people’s competition level. However, this study is not without limitations. For example, it is conducted in a particular university, questioning its generalizability. Future research can explore the factors that affect different genders’ social media usage and empirically test the conceptual model of this study.

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