Digital Photographic Practices as Expressions of Personhood and Identity: Variations Across School Leavers and Recent Retirees

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<tr>
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<th>Visual Studies</th>
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Digital Photographic Practices as Expressions of Personhood and Identity: Variations Across School Leavers and Recent Retirees

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Digital Photographic Practices as Expressions of Personhood and Identity: Variations Across School Leavers and Recent Retirees

Abstract. Over the last two decades, digital photography has been adopted by young and old. Many young adults easily take photos, share them across multiple social networks using smartphones, and create digital identities for themselves consciously and unconsciously. Is the same true for older adults? As part of a larger mixed-methods study of online life in the UK, we considered digital photographic practices at two life transitions: leaving secondary school and retiring from work. In this paper, we report on a complex picture of different kinds of interactions with visual media online, and variation across age groups in the construction of digital identities. In doing so, we argue for a blurring of the distinctions between Chalfen’s ‘Kodak Culture’ and Miller and Edwards’ ‘Snaprs’. The camera lens often faces inwards for young adults: tagged ‘Selfies’ and images co-constructed with social network members commonly contribute to their digital identities. In contrast, retirees turn the camera’s lens outwards towards the world, not inwards to themselves. In concluding, we pay special attention to the digital social norms of co-creation of self and balancing convenience and privacy for people of varying ages, and what our findings mean for the future of photo-sharing as a form of self-expression, as today’s young adults grow old and retire.

Keywords. Photography; young adults; retirees; ethnography; life transition; Snaprs; Kodak Culture.
INTRODUCTION

People engage in the photographic practices of taking and sharing photographs (photos) for a number of reasons: communicative purposes (Miller and Edwards 2007; Stefanone and Lackaff 2009), to help shape their social identity (Harrison 2002; Siibak 2009), and not least, to capture and augment memories (Van Dijck 2008; Kuhn 2007).

The questions of how and why individuals capture photographic images have been considered across disciplines. An anthropological lens has been applied by Chalfen (1987) and Sontag (1977) to examine how and why individuals capture images. Chalfen coined the term “Kodak Culture” to describe people who take photos of events like holidays and celebrations and share those photos with key people linked to the photo subjects. Miller and Edwards (2007) identified a second group of photographers, “Snaprs”, whose photos largely remain in digital form, represent everyday events rather than special occasions (Twenty Pixels 2013), and who share images more widely than participants in Kodak Culture. Although Miller and Edwards do not use age as a distinguishing factor for Kodak Culture vs. Snaprs (both of their groups were in their 20s and 30s), later work links Kodak Culture with older adults (e.g., Hope, Schwaba, and Piper 2014).

If people are taking photos to communicate, to shape their social identity, and to capture and augment memories, are there particular times in their lives when they might be more likely to take and share photos? Previous work in Human Computer Interaction (HCI) has examined the value and importance of photos with people within age classes, including young (Van Dijck 2008; Anonymised for Review, n.d.) and older adults (Apted, Kay, and Quigley 2006; Lindley, Harper, and Sellen 2009; Waycott et al. 2013), but none of these studies explicitly explores variation and complexity in photo taking and sharing across age classes.

Our contention is that life transitions may affect photo taking and sharing behaviors. By life transition, we mean a period in time when individuals experience major life changes, either intended or unintended. Intended transitions may include moving from school to further education, becoming a parent, or retiring. Unintended transitions may include (e.g.) becoming a carer, experiencing the breakdown of a relationship (George 1993). Life transitions are often characterised by a period of instability, as the central actor typically makes major adjustments to life circumstances, coping with new experiences and developing new skills (Hulme 2014). Some HCI work has looked at digital technology use around particular life events, such as getting married (Massimi, Harper, and Sellen 2014), relationship breakdown (Anonymised for Review, n.d.) or the loss of a job (Burke and Kraut 2013). The literature on technology use across life transitions, however, with a focus on how such transitions change what photos are captured and shared, remains underexplored.

In this paper, we consider photo taking and sharing, using data gathered as part of a qualitative, ethnographic study of online life, augmented by quantitative data mining of the social network site Facebook1. The insights into digital photographic practices emerged out of the data, as an integral part of contemporary online life. Study

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1 www.facebook.com
participants represented two different life transitions in the UK: (i) leaving secondary school (referred to in this paper as *young adults*); and (ii) retiring from work (referred to as *retirees*). We chose to study these two groups for two main reasons. First, how the self is represented photographically may change across the transition of either leaving secondary school or retiring. Second, these two groups may provide disparate perspectives on a topic relevant across the human lifespan - the future of photo capture and sharing - because of their differing ages and life experience with technology.

By thinking about how our participants were ‘doing’ photography in the context of a transition, we were able to develop insights into the context of our participants’ lives, not just their photo-taking behavior in isolation. This approach allowed us to understand how taking and sharing photos currently varies across the lifespan, and how this social function of photography may change as today’s young adults become retirees in the future.

**BACKGROUND**

**Photographic Practices as Components of Digital Identity and Personhood**

Taking and sharing photos is a way for an individual to express versions of their experiences (Radley 2010), and to capture and invoke memories (Kuhn 2007). Photos may be widely shared with friends and to the world (Van Dijck 2011). As contemporary sharing of photos increasingly involves use of the Internet, photography contributes to online “knowledge production, interventions, and social action” (Luttrell and Chalfen 2010, 197). It also serves as a medium for self-expression and identity in digital contexts (boyd and Ellison 2007; Graham et al. 2011; Mendelson and Papacharissi 2011; Sarvas and Frohlich 2011).

The role of photography in self-expression and identity can be understood through Goffman’s concept of the performance of self, whereby individuals craft and ‘perform’ edited representations of their social identities, and adapt them to fit different audiences (Goffman 1959). Photographs can serve as powerful visual elements in these performances of self. Their role has arguably been amplified as “the medium of dissemination” (Luhmann, cited by Lee, Goede, and Shryock 2010, 142) has shifted from print to pixel, and the cost (both financial and time-based) in copying and sharing photos has dropped significantly. This shift means that photos can now be shared online with large audiences with ease and minimal cost beyond that associated with being the owner of a smartphone.

Alongside the amplification of the role of photography in self-expression and identity comes a unification of photography with other media. Lee et al note that “the digital medium unifies the differences between text, music, photographs and other media; interrupting their ability to restore form to communication on their own terms” (2010, 141). Photos no longer stand alone: they have associated metadata, tags, and associations with other media in their presentation online, which enrich and contextualize their meaning (Botticello, Fisher, and Woodward 2016; Rose 2016; Pauwels 2015).
Thus digital photos contribute to the milieu of an individual’s digital identity. This term describes “how the data or information referring to people is created, captured, managed, verified and (ab)used by themselves and/or others (individuals, businesses or government) in life and death” (Engineering and Physical Sciences Research Council 2015). A digital identity may include traditional identity information - physical characteristics like biometrics, name, and address (Emanuel and Stanton Fraser 2014) - as well as digital attributes like email address (Foresight Future Identities 2013), and online traces - the things that we post or that others post for us (such as photos, status updates, reports published online, or videotaped performances). Lee et al integrate the concept of digital identity in their discussion of digital personhood, which they define as having five elements: 1) a profile created on an online social network service, 2) expansion of one’s social media profile to allow for friend-seeking through shared likes/dislikes, 3) a digital “address” 4) participation in digital friendships2 and 5) validation of the digital personhood of others. In short, digital personhood requires not only identity information to be present online, but also some interaction with others around that information. This leads us to the concept of networked individualism (Rainie and Wellman 2012).

The enactment of an individual’s multi-faceted digital identity and digital personhood is performed through a networked individualism that enables individuals to “support, supplement and enhance face-to-face interaction” (Rainie and Wellman 2012, 166). An important element of this networked individualism lies in networked content production, enabling individuals to perform their identities to wide audiences (ibid). In turn, members of these audiences can choose what content they want to consume, and also what content they want to edit and share with their own audiences.

Photographic practices across age groups and life transitions

The enactment of digital personhood is increasingly performed by both young and old (Smith 2014; Madden et al. 2013). However, beyond broad theoretical distinctions (for example, between Kodak Culture and Snaprs described above), the literature reporting on the behavior of young adults and older adults around photographic practices often points in different directions. Research on young adults’ practices tends to focus on use of photos for self-presentation (Mendelson and Papacharissi 2011; Mazur and Kozarian 2010), and in particular, problematic photo sharing such as sexting (Chalfen 2009; Weiss and Samenow 2010). Research on older adults’ photographic practices is more diverse. Baecker and colleagues, among others, have focused their work on older adults using visual digital media to reflect on past experiences, e.g., (2012), whilst Waycott and colleagues (2013) focused specifically on older adult content production through a prototype iPad application (app).

Although extant literature suggests that individuals may capture and share more photos at life transitions, a comprehensive study to support this contention has not been undertaken, likely because it would require following large numbers of participants for an uncertain amount of time as they moved through their lives. The duration of a life transition might vary across participants: while the actual transition event (leaving secondary school) could be accomplished in a single day, the changes

2 For example, when you become friends with someone, you expect that they will visit your profile and comment on it.
associated with moving from a secondary student role into further education, training, or employment, could span several months or more, with photographic practices changing incrementally over this period. The sociology literature suggests that studies of individuals’ experiences of transitions tend to focus on the impact of historical events (e.g., the Great Depression or World War Two) or early life events (e.g., childhood trauma or entering the first year of school) on subsequent life patterns (George 1993). Our study reported herein differs from these studies by focusing on a particular set of behaviors (photo taking and sharing) at two life transitions, and asking what we can learn about present variations - and infer about future ones - in these behaviors, based on how our different-age participants behave.

Current Norms and Reflections on the Future of Photographic Practices

In addition to examining photographic practices through the lens of digital personhood, we ask why young adults and retirees share photos as they do, and what conclusions might be drawn about the future of photo-sharing based on emerging digital social norms. Social norms refer to “prescriptions of behaviors and attitudes that are considered acceptable or not in a given social unit” (Chekroun 2008, 2142). We define digital social norms as socially normative behavior in a digital age, discerned from social expectations of online behavior that are often not articulated, and how individuals respond to these expectations. Researchers characterizing social media have expressed these types of norms (e.g., Fleming, Vandermause, and Shaw 2014; Tufekci 2008; Anonymised for Review, n.d.) but not with a specific focus on photos, across life stages, nor with a focus on what current online behavior may mean for the future.

The design of our larger study, Anonymised for Review, allows us to explore variation among younger and older users in the context of photo taking and sharing. Although our approach is necessarily cross-sectional, capturing a transitional period in each participant’s life rather than following participants longitudinally across the lifespan, reflecting on photographic practices across life transitions permits us to see both groups celebrating rites of passage, reconfiguring their balance between school/work and leisure activities, and making changes to their online presence. With data on these changes, we begin to build evidence for complexity and variation in the presentation of digital self across age groups, to question the future of photo taking and sharing based on what we know about current practices, and also to address the dichotomy between Kodak Culture and Snaprs first raised by Miller and Edwards (2007) that remains pertinent today.

APPROACH

Methods

Method 1: Our methodological approach involved conducting a qualitative ethnographic study of participants’ online lives. Ethnography is defined as “a scientific approach to discovering and investigating social and cultural patterns and meaning in communities, institutions and other social settings.” (Schensul, Schensul, and LeCompte 1999, 1) and can be accomplished through a variety of qualitative and quantitative methods. Table 1 presents details on our qualitative methods of semi-
structured interviews and participant observation, along with a brief description of the
data derived from each method.

[Insert Table 1 About here]

The research participants were (i) 15 young adults who had recently left secondary
school, and (ii) 15 retirees, who had recently retired from work. Interviews and
observations all took place in the same mid-sized city (~150,000 residents) in the UK
between December 2013 and March 2014. Our participants were recruited through
community contacts. They were ordinary individuals, not early technology adopters,
recruited so that we could study their personal practices around taking and sharing
photos. Table 2 presents brief demographic information about study participants,
included to show that we sought diversity of sex, age, and occupation among
participants in our qualitative ethnographic study.

[Insert Table 2 about Here]

During the semi-structured interviews, participants were asked four specific questions
about their photo taking and sharing behavior:

- What types of photos are taken?
- How are photos shared?
- Why are photos shared?
- What is the future of photos in online life?

We asked participants to think broadly about their photo taking and sharing behavior,
not just taking photos on their mobile phone and sharing via Facebook. In particular,
we encouraged reflection upon the types of subject matter represented within the
photo content that participants shared, whilst minimizing our influence regarding
what those content classes (topics) should be. We asked participants to describe the
types of photos that they took, rather than (for example) ask them to sort a set of
photos to derive classes. By interviewing participants shortly after they experienced a
life transition, we captured their perceptions and behavior around what changed in
their ‘digital lives’ as they made the transition. With technology such as Facebook and
mobile phone cameras at their disposal, our participants could easily show us what
they were taking pictures of ‘now’, i.e. at the current time, and in some cases take us
‘back’ to the time of the transition to show us what they were taking pictures of ‘then’
as well. Whilst our method did not involve a formal photo elicitation technique (Pink
2013), we did use the photos that were shown and available ‘to-hand’ to stimulate
sense making at interview between the researcher and participant, and to help develop
the researcher’s ethnographic insight.

Method 2: The above method was complemented by data from a quantitative study
conducted as part of the larger (CDL) project. In this study, the classification of
approximately 5,000 photographs from Facebook was undertaken via an application
developed by our collaborators at another UK university (Anonymised for Review,
n.d.). Participants in this part of the project were 22 first-year University students who
each agreed to donate their Facebook photos to the project and spend 20 minutes
classifying a small subset of the photos donated by both themselves and the other
participants in the study. This activity was designed to provide baseline knowledge to
inform the development of an automated classification algorithm (computer program).
The objective of the algorithm was to extrapolate from this human knowledge through
machine learning, to classify the entire set of donated social media photos, enabling automated coding of those photos by topic. Participants in the classification exercise were asked to assign one or more of the following nine classes to each photograph they viewed:

1. Art
2. Attitudes & Beliefs
3. Family & Pets
4. Food
5. Friends & Peer Relationships
6. Holiday & Travel
7. Parties & Celebrations
8. Personal Style and Self Image
9. Sports

The specifics of the machine learning software are beyond the scope of this paper, but see (Anonymised for Review, n.d.) for details. Please see Table 3 in the Findings section for a visual representation of how the categories of Method 2 were related to the category descriptions provided by interviewees in Method 1.

Data Analysis

Analysis of Method 1 data focused on ‘photo-talk’ in the research context (Frohlich et al. 2002; Anonymised for Review, n.d.). Interviews and field notes were analyzed using a Grounded Theory (GT) approach (Charmaz 2011; Strauss and Corbin 1990), which involves letting theory develop out of the data collected. This is achieved by first identifying initial themes through the line-by-line process of open coding, and then refining these themes into focused codes applied to additional transcripts. This approach allowed us to identify individual perceptions of everyday life experiences without preconceptions. For this paper, the focused codes “photo/video”, “online self,” “online community,” “content groups,” “browsing” and “future of technology” were considered in developing theory about photo taking and sharing.

Within this process, the content of photos was analyzed in terms of the interviewee’s description of the photo at interview and in the context of applying GT, not through conducting a separate content analysis (Pink 2013). As each interviewee responded to the first question (What types of photos are taken?), the first author classified each photo as it was discussed during the interview; for example, if a participant’s description was “that’s a party photo” then the photo was classified as a “party” class of photo. As the ‘classes’ of photos developed during the GT analysis, the “party” photo was re-classified under “Celebrations”. At the point in the project when the Method 2 exercise was held, nine classes (mentioned above), determined through researcher knowledge of photo classes commonly posted on Facebook, combined with pilot interviews with young adults had already been generated. So participants taking part in the Method 2 exercise manually selected one or more of the existing classes to apply to each photo that they saw. One of the challenges and rewards of this analysis was that research collaborators from very different disciplines – anthropology, human-computer interaction, and computer vision – were all working together to seek a cohesive explanation of how individuals classified photos.
FINDINGS

This section explores the answers to the questions above, given by our two groups of participants in Method 1: *What types of photos are taken? How are photos shared? Why are photos shared? What is the future of photos in online life?* Table 3 summarizes the most frequently mentioned responses to the questions by group, in the words most commonly used by the participants.

Throughout this section, individuals who are quoted are identified by a name, changed as part of the anonymization process, followed by their actual age – e.g. Moira63. Further, in the photos shown in this paper (obtained from participants via Method 1 and 2), we have blurred faces to reduce readers’ ability to identify the people shown. This is consistent with ethical permissions provided by participants, and with ethical approval for this project granted by the University of Dundee.

[Insert Table 3 about here]

Types of Photos Taken

Participants, across age groups in Method 1, identified 17 classes of photos that they took, which are listed in Table 3. This table also includes the nine classes developed by the researchers, so readers can see how the classes presented by project staff and research participants have aligned. Both young adults and retirees mentioned eight of the nine researcher-developed classes. “Attitudes and beliefs” was one class that we included in the classification scheme that ended up not being used at all by research participants. As researchers, we understood that many Facebook posts, including posted pictures, could be described as expressions of this category. But while adults of all ages might re-share content on Facebook related to attitudes and beliefs, this was not a class they identified in their own picture taking and sharing behavior.

In Method 2, 850 photos were classified based on their content. Figure 1 shows how many photos were assigned to each category by the 22 participants, with ‘friends and peer relationships’ the most used category.

[Insert Fig 1 about here]

We found that 14 photo classes were common to both younger and older adults, although photos in these classes were taken at different frequencies within our sample. For a category such as “personal style and self image,” our participants applied several descriptors to those photos, such as ‘[me] working or volunteering’, ‘baby or embarrassing photos [of me]’ and ‘Me with…’ or ‘Me at…’ photos. Four classes mentioned by participants were not captured in our nine-category classification scheme – these include one type of photo unique to each age group, “something has happened” (young adults), and “health issues” (retirees), and two photo types common across both age classes – “items received or documented”, and “funny things”.

Figure 2a and 2b show examples of photos classified as “personal style and self image” in which our participants appear. Figure 2a shows an example of a young adult’s photo that marks leaving school and the associated celebratory dance or prom. Figure 2b was posted by an older adult participant and shows him in a work
conference situation. Other photos captured by both young adults and retirees include photos of family, holidays and travel, and parties and celebrations. Figure 2c shows a photo typical of the parties/celebrations category for young adults – an 18th birthday.

[Insert Fig 2a-2c about here]

Figure 3a and 3b show young adults’ photos that were classified as ‘friends’ and ‘food’. Figure 3a depicts a group of friends. Figure 3b shows how the classes ‘food’ and ‘friends’ may overlap. One type of photo was unique to young adults: the “Something has happened” photo. This photo was designed to visually represent one’s current ‘status’ and was posted to social media very soon after an event happened. Figure 3c shows a Facebook status update photo described by participant Rebecca21:

“That’s an example of something I would put as a Facebook status, where I cut my foot open on a broken bottle at a Bastille Day party in France, and it was properly bleeding. Then all these guys who I’d met through the club [said], “Oh my God, she’s bleeding,” carried me up to a bar area and they tried to do first aid, while my brother frantically ran about trying to find my parents. So that was good fun.”

Two types of photos were unique to older adults – photos of architecture and historical sites (See Figure 3d), and photos related to health issues. Some classes differed in their emphasis across groups – for example, while photos of animals were classed “zoo photos” by a young adult, older adults focused more on birds and other wildlife in natural settings. Similarly, while young adults described a photo category as showing items that they purchased or received as a gift (a camera, a unique pair of shoes, truck tires) older adults documented things like structural repairs and house contents for insurance.

[Insert Fig. 3a – d about here]

**How Photos Are Shared**

For almost all of our young adults, Facebook\(^3\) was their location of choice for sharing photos. The one exception did not have a smartphone and made minimal use of Facebook, although he still maintained an account he occasionally accessed on the computer. There was a focus on giving almost-immediate status updates online. Instagram, Twitter\(^4\) and the ephemeral-photo app Snapchat\(^5\) were also popular with our young adults. Some also occasionally shared photos via Reddit\(^6\). One young adult used WhatsApp for sending photos to others because it was free. Two young adults referred to occasional photo-printing by themselves or friends, for example: “My friend actually has this [embarrassing photo of me] printed out and stuck on his wall” (Lewis19).

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\(^3\) https://www.facebook.com/
\(^4\) https://twitter.com/
\(^5\) https://www.snapchat.com/
\(^6\) http://www.reddit.com/
Our retirees exhibited a range of photo sharing practices that were distinct from those of the young adults. Five retirees did not share digital photos online at all; however, three of them did occasionally print out photos, or showed them to others on their phone or computer. This offline sharing was sometimes used to document a period of time: for example, one retiree held a “winter slideshow” for the youth group that he worked with as a volunteer. Amongst retirees that did share digital photos online, the most popular approach was to attach photos to an email. Only one participant posted photos on Twitter: these were mostly of her walking group in scenic locations, and of knitting problems. Three retirees had used or hoped to use Flickr\(^7\) to organize and share photos, while two reported attaching or receiving photos via text messages or the messenger WhatsApp\(^8\). Although two-thirds of retirees had Facebook accounts, only one was a regular Facebook user and poster of photos, and five others reported that they currently or had previously shared photos on Facebook. Finally, two retirees emphatically did not want to share photos on Facebook, due to privacy concerns:

"I don’t fully understand because …if I post something, I don’t have the full confidence that I’m saying something private that remains private and I don’t want my photograph shown all over the world.” (Ken60)

**Why Photos Are Shared**

For both our young adults and retirees, a common motivation for photo sharing was to share a memory. For young adults, this motivation was often linked to connecting to friends. They were sharing memories in the sense of posting photos from events where their friends or family had been co-present, including events around their recent life transition of leaving school. For four of the young adults, this theme of sharing photos and memories figured prominently in their stories of why they started using Facebook:

“...I didn’t get Facebook until... summer 2009. And it’s only because I met a load of good people on holiday. We were at a caravan park...We were all saying goodbye at the end, it was like, ‘Oh, do you have Facebook?’ and I was like, ‘No’. Then I thought, ‘I’ll get it so that we can share photos and things.’” (Rebecca21)

For the retirees, sharing a memory could mean sharing photos with family or friends who had been co-present at an event, but it could also mean documenting an event, person, or place to show to absent friends, or for posterity. For example, Douglas60 had posted old family photos to a genealogy website, and a picture of his wife’s father to the Royal Navy website\(^9\), while another retiree took and posted photos of a special tree-planting ceremony:

“Last year there was an assembly in [place name], they planted a coronation tree to celebrate the Queen’s sixtieth anniversary on the throne and there had been a tree planted in 1953, so I was asked to take some photographs and I put them on a website for the people who were there to share.” (Donald65)

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7 https://www.flickr.com/
8 https://www.whatsapp.com/
9 http://www.royalnavy.mod.uk/
A common experience for the young adults in photo sharing was that they were tagged in a photo that was shared by someone else on Facebook. Although no retirees reported that others shared photos of them, when we visited their Facebook pages with them, we found that six participants had been tagged in Facebook photos, although it was often one or two photos versus tens or hundreds in which young adults may be tagged.

Digital Personhood

Participants in both groups showed ‘who they were’ through photos online, although this was far more common in young adults than the retirees. The young adults reported sharing photos to “let people know what I’ve been up to”, or “to keep in touch”. For many of these participants, posting photos almost always took the place of posting a written status update on Facebook. For example:

“I uploaded loads when I was in Peru so I think that’s probably the time that I’ve uploaded the most photos…it was like… travel, kind of my entire life in Peru. I wanted to show everyone what it was like really…this was how I’d told my friends and my parents and my family and everything what was going on. When you can’t really talk to people as often, it’s easier just to post lots of photos so they can see.” (Megan22)

Three young adults specifically mentioned capturing a sense of their identity as a reason for sharing a photo, for example: “One night we were playing Harry Potter Cluedo with wine and cake and I felt, ‘This is so typical of us’ and took a picture…” (Rebecca21).

Some young adults had mixed feelings about documenting their identity online. For example, Andrew21 deleted “a load” of photos of himself volunteering in Kenya, including several pictures that had formerly been his profile pictures because: “…it kind of cheapens the experience if part of your reason for doing something is to then be able to share it and get recognition for it.” Here, Andrew showed he had clearly been thinking about his online self-representation, but other young adults expressed a similar idea in response to an interview question about seeking likes on social media, with fewer than half our young adult interviewees admitting to posting photos simply to seek ‘likes’.

In terms of photos at the life transition, all of the young adults had one or more photos connected to their Facebook profile of the last day of school, an end-of-school dance, their (or a friend’s) 18th birthday party, and/or a holiday taken with friends after leaving school. For retirees, photos of life transition events – sixtieth birthdays, for example, or retirement parties, were very rare. Only two participants mentioned retirement parties in the interview, and only one had a photo of his party online, perhaps because it connected to another part of his life:

“We’ve got a little band, a bunch of neighbours who play Scottish music… and this is my retirement party… And it was a surprise, they turned up in full outfits, I didn't know they were gonna be there, and we all played together at my retirement party, which was a real hoot.” (John69)
Among the retirees, only one participant talked explicitly about portraying himself online through photos:

“I put these up. This is me trimming hedge. This is my brother-in-law in Los Angeles.... This is us posing in Santa Monica with our hats. I suppose this is my one attempt at trying to portray myself online. Because when I first set up the Facebook, I put all these on and I haven’t done much since, but just lots of different things I thought people would find interesting.” (John69)

Two retirees showed themselves online in humorous ways (Ian60 called these “Mickey Mouse profile photos”) or in a context of “Me with...” (for Tom69, with his football hero, and with a cardboard cut-out of President Obama). Two others alluded to “being honest” in photos of themselves shared online, one by updating his profile photo regularly, even on un-used sites like LinkedIn, and another by posting a photo on a dating website even though she declined to post a photo of herself on Facebook.

For retirees who rarely shared photos online, however, the theme of online danger loomed large, with peril associated even with posting a picture of oneself on Skype10:

“We rapidly discovered that [if my wife] was [pictured] just as herself, she got all sorts of propositions from people, you know, who wanted to be her friend or her contact so ... we changed the name so that it’s both of us with a picture of us both... I’ve no illusions as to what they’re looking for, I just block it all.” (Douglas60)

Future of Photos in Online Life

When asked about the future of photos in online life, most participants focused on the speed of technological change to explain why it was hard for them to predict what role photos would play in the future. Some of our young adults and retirees believed that photos would still be ubiquitous, but their functions would depend upon what kind of devices and media became common in the future. One retiree participant reflected on what he perceived to be a continuing age-divide with regard to technology:

“Youngsters will be growing up taking these things for granted... instant access to anybody wherever in the world they are, being able to - what’s it called? – Snapchat. Instantly send a photograph to somebody wherever they are. ...I don’t [take it for granted]...because so little of my life has actually been with that technology.” (Ian60)

Other participants focused on the reality that part of their past is documented on Facebook and other sites; several young adults specifically mentioned that this photodocumentation links them to other people, and those links will persist into the future. A few young adult participants thought that they might expand their current photo archives more formally online (storing albums with “only me” privacy settings on

10 http://www.skype.com/en/
Facebook, for example), or completely replacing offline photo albums with digital ones.

Digital images for surveillance and monitoring were also the subject of discussion by both groups. They commented that this future was almost here\footnote{This ‘future’ is in fact already here, see Taigman,Yaniv, Ming Yang, Marc’Aurelio Ranzato, & Lior Wolf. 2014. “Deepface: Closing the gap to human-level performance in face verification.” In Computer Vision and Pattern Recognition (CVPR), 2014 IEEE Conference, 1701-1708. doi: 10.1109/CVPR.2014.220.} with the widespread nature of closed circuit television (CCTV) deployed in the UK. This seemingly ubiquitous CCTV, coupled with the potential unlocked by advancing facial recognition technology, connected even in younger participants’ minds to online danger:

“I am sure it will be even fancier in 10 years’ time…. Probably be even easier to upload photos and maybe there’ll even be cameras, every single location in the world that will take a photo for you. And they just upload it straight to Facebook….or maybe face recognition will be like way easier so …even if you are not friends with the person it might immediately come up with who they are…It would be, really awkward for everybody wouldn’t it…that person is in the background [of a photo in a nightclub] but it immediately comes up with their name and it causes a lot of awkwardness for them. They are probably doing something they should not.” (Megan22)

This participant - and others who envisioned a future where more could be known about people by expanding access to the kind of information already available online - was quick to point out that she would not like such an app to be used on her, however.

DISCUSSION

This paper has explored photo sharing during two life transitions: leaving secondary school and retiring from work. The findings presented here arguably contribute novel and valuable understanding of digital photographic practices, variations in behaviors across young adults and retirees, and how digital photos serve as expressions of personhood and identity. The findings also offer insight into how young adults may continue to represent themselves through digital photos as they grow older and become retirees themselves.

In this section, we begin to address social norms for digital photo taking and sharing for individuals at different transition points in the human lifespan. We further explain how these norms shape what kind of photo content is shared across life transitions as an expression of digital personhood, and with whom they are shared. We then discuss how young adults and retirees approach balancing convenience and privacy online, and conclude by revisiting the Kodak Culture and Snaprs framework and by theorizing future behavior of young adults, given our current findings.
Photos Taken and Shared: Digital Social Norms for Digital Selves

Although all of our participants took and shared photos, the young adults generally posted more content on social media to communicate their social identities than the retirees did.

For the young adults, photos taken reflected their recent life transition of leaving school - at least those aspects of the transition that were socially experienced: the group “last day of school” photos, final prom event, vacation with friends, milestone birthdays (the age of 18 is associated with leaving school and being able to buy and drink alcohol legally in the UK), arriving at University and making new friends. One participant noted that “practically all of the photos of me on Facebook are of social occasions” (Gavin21) and others explained that even if they did not post such photos themselves, “there is always a friend who will” (Rebecca21) because of the strong digital social norm amongst young adults to share one’s life with friends online.

The photos shared presented portraits of young adults that were co-created with their friends, following a digital social norm on social media that emphasized the co-creation of identity. This co-creation could be consensual, through agreed tagging and shared albums, or illicit - for example through ‘Fraping’, where another person posted material on their Facebook page in their name, without their consent (Anonymised for Review, n.d.). The co-created nature of online identity (or identities) was an accepted norm amongst this group. They also recognized that online identity was an edited (not necessarily accurate) version of self, echoing previous findings by (boyd and Ellison 2007; Van Dijck 2008) whereby online identities are crafted through a process of impression management to reveal a partial (often favorable) representation of an individual. The crafting of this edited identity was guided by a digital social norm involving a balance between accuracy and approval-seeking, posting pictures of oneself and one’s activities that would be ‘liked’ by friends on social media. Central to many of the photos was the young adult herself/himself, with the camera lens turned inwards, documenting that individual’s participation in events during this transitional period.

Photos taken by retirees did not usually reflect their recent life transition. Participants from this group shared only one retirement party photo on Facebook. For most of the retirees who shared photos, the subjects tended to skew towards where they were (vacations, landscapes) and who they were with (often family, and sometimes friends). There was a focus in shared photos on family, special occasions, vacations, and interests that often skewed the content of photos away from a focus on people. For example, a history buff would take photos of historical sites, a bird-watcher would take photos of unique birds that she saw. One exception was John69’s focus on creating an online persona for Facebook (see above), but most retirees did not articulate a desire to present themselves online in that way. There was a small amount of co-creation of personhood for retirees (for example, family members tagging them in photos on Facebook), but based on our qualitative research, the digital social norm for retirees was to construct their digital personhood (beyond often work-associated things searchable on Google) alone. Their lens was commonly turned outwards, placing them as an observer of experiences, rather than a central actor.
Retirees treated digitally mediated photo sharing as an extension of their previous behavior – sharing physically printed photos. They did not feel obligated to share online or co-create identity in the way that our young adults did. Their photo sharing behavior was constrained by potentially more limited peer groups on social networks. It was also constrained by uncertainty about where photos ‘went’ once they were posted online. These practical problems and privacy concerns led retirees to favor the use of named recipients and limited channels (via email and text messages) when sharing photos. Although retirees completed many tasks online, and were drawn to the instant availability of information, social norms around sharing one’s life online reflected that developing and maintaining relationships was mainly an offline activity for them.

There are several possible explanations for why the retirement life transition was photographed less (or at least, shared less) than the leaving secondary school transition. In addition to the possibility that our older participants were less photo-oriented than their younger counterparts (not as prone to snap a picture), several of them were self-employed or working from home, so perhaps they did not have a retirement party. At least two participants had other life circumstances that may have precluded retirement from being a big event (for example, losing their partner around the time of retirement). Finally, parties that did happen may have been enjoyed by retirees in the moment, without them feeling a need to document and share the event.

Balancing Convenience and Privacy

We found variable tensions between convenience and privacy amongst our participants. Previous work has explored these tensions – e.g. (Chin et al. 2012; Kolimi, Zhu, and Carpenter 2012; Anonymised for Review, n.d.), including in the specific context of photo sharing (Ahern et al. 2007; Anonymised for Review, n.d.). Both groups valued the sense of being connected and being in touch with others that being online brought with it – with the caveat that sometimes they did not want to share their life (or their photo) with everyone. The value of convenience, and the digital social norms of identity co-creation and sharing with friends, won out for most of the young adults over privacy concerns when it came to sharing photos on Facebook, even though they articulated concern about the ever-widening audience of the site. Retirees attributed greater weight to online privacy concerns, and this mostly kept them from sharing on Facebook.

Kodak Culture for All

Despite extant theoretical discussion of the photographic practice of Kodak Culture versus Snaprs, both young adults and retirees in our study still practiced Kodak Culture. They took photos of events like holidays and celebrations, and shared those photos with key people linked to the photo subjects (Chalfen 1987), whether that sharing was accomplished on a semi-public platform like Facebook, or more privately through email or a text message attachment. In keeping with the traditions of film photography, both young adults and retirees talked about printing photos, demonstrating their value as tangible reminders.

In addition to practicing Kodak Culture, the young adults also embraced the photography of the everyday and widespread sharing that characterizes Snaprs (Miller
and Edwards 2007; Sarvas and Frohlich 2011). We suggest that the theoretical distinction between Kodak Culture and Snaprs is not an either/or situation, but an additive way to understand the ‘social practices around photography’ (Lindley et al. 2008), advancing the discourse in visual studies and related fields.

**Future of Photo Sharing Technology**

When reflecting on the future of photo sharing, participants expressed concern about what would happen to the digital photos that are becoming a ubiquitous means to communicate, irrespective of whether they are casually or carefully shared and stored online. During interviews, young adults and retirees both commented on the fast pace of technology change, and expressed a desire to keep up with this rapid change rather than focusing on deeper issues of how technology is changing human behavior. While participants in both groups said that they liked browsing on the Internet, they also voiced concern about being the subject of others’ browsing activity, especially in a future where photos may be taken and posted without consent, and where online information (like relationship status) may be even more widely available.

Our evidence, building upon extant research, indicates that digital social norms for young adults are stronger than for retirees, with almost all young adults maintaining friendships and “keeping in touch with” family and friends on Facebook (and also Snapchat and Instagram) (Jang et al. 2015; Joinson 2008; Mazur and Kozarian 2010; Mendelson and Papacharissi 2011; Tinkler 2008). Consistent with observations by Lee et al (2010), photos contribute to young adults’ efforts at keeping in touch as part of an ecology of digital media and metadata, rather than as standalone artefacts. For retirees, keeping in touch online is less expected because, unlike young adults, retirees have not been engaged in such practices since their early adolescence. Communication by phone or email is socially acceptable, and it is not assumed that every communication must be illustrated (Hope, Schwaba, and Piper 2014).

Both young adults and retirees may also be choosing their preferred communication channel based on the recipient of the communication, going on Facebook because friends or family are there, or choosing to video chat or email with particularly close contacts (see Bales and Lindley 2013 for a discussion of this among University students). As young adults age, we suggest that they will continue to engage in their existing digital photo practices because the norm of visually “keeping in touch” will likely continue to be a digital social norm for those individuals.

Both of our participant groups viewed the spread of the Internet and digital photos positively – allowing them to be connected, keep in touch, and have information at their fingertips. However, they did not want to be browsed in the same way they browse others. Jiang and colleagues (2013) explore how common latent interactions are on a Chinese social network, but future research might address people’s actual browsing activities as well as their perceptions of ‘who’ browses them on social media. As young adults grow older, there may be a browsing-related backlash, where users demand more protected browsing - or at least more information about who is browsing them.

Our findings suggest that, in the future, retirees are likely to have a longer history of technology adoption behind them than most of the retirees who took part in our study did. They may be more ‘tech-savvy’ as a result. The retirees in our study were born
long before the Internet was widely used. What we can learn from our sample of retirees is that they are generally more concerned with sharing their lived experiences of the world that they inhabit, for example, through photos of architecture, knitting, bird-watching; the camera’s lens is usually turned *outwards towards the world*, not inwards to the individual. We anticipate that future retirees are likely to be sensitized to the growing list of digital social norms prevalent online, although these are likely to evolve over time with the incessant advent of new technologies. The volume of photo posting common amongst young adults may well slow down, as privacy concerns develop along with maturity, and egocentricity gives way to outward-looking interests in family and community. It is certain that participants’ world views will continue to shape their use of digital technology, just as digital technology continues to shape their world views. Finally, our findings suggest that both young and old will retain a hypocritical stance when it comes to browsing others online. Just like offline gossip, people are happy to do it, but not so happy to be the subject of it themselves.

**CONCLUSION**

This paper extends the established discourse about the social function of photography as a medium for self-expression and identity management in a digital context, as well as the mechanics of sharing photos. It does this by detailing the photo taking and sharing practices in two life transition groups: young adults leaving secondary school; and older adults who have recently retired from work. To support our claim herein that Kodak Culture and Snaprs may not be such a binary distinction, we have drawn upon our ethnographic and photo-classification research among research participants at these two life transitions. We found that both groups photographed similar subjects and wanted to share photos for similar reasons, but that the young adults used shared photos as part of their self-expression far more readily and at greater volume than the retirees. The young adults regularly constructed their digital identities and digital personhood using photos they posted combined with photos posted by others. The use of photos to express a sense of self was not *absent* in retirees, but they were much more careful and considered about their digital identity. This attitude toward digital personhood may affect photo sharing in the future, although desire for convenient access to knowledge and connection with others - especially at key transition points in the human lifespan - may ultimately outweigh concerns for privacy and a carefully curated presentation of self.

**REFERENCES**


<table>
<thead>
<tr>
<th>Qualitative Method</th>
<th>Description of Method</th>
<th>Data Collected</th>
</tr>
</thead>
</table>
| Semi-structured interview | One-on-one interviews lasting 1.5 – 2 hours. Interview included questions about:  
• Online life before and after their recent life transition  
• Electronic devices, sites, and services commonly used  
• Online privacy and speculations on the future of technology  
• A visit to a location where participants kept photos (most often Facebook, but sometimes Instagram or the camera roll of their phone)  
  o to discuss photo taking and sharing  
  o to ask participants to categorize the types of photos they took, in their own words | 30 interview transcripts  
30 sets of interview notes  
Photos from Facebook that, in the participants’ view, represented a category of photos that they took |
| Participant observation | Informal conversations with individuals about technology use, and observations of technology use in public places in the city where the research took place                                                                 | Field notes pertaining to young and older adults                                                      |
Table 2. Participant Demographics

<table>
<thead>
<tr>
<th>Group</th>
<th>Male</th>
<th>Female</th>
<th>Mean age (range)</th>
<th>Average time between transition and interview (range)</th>
<th>Career area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Young Adults</td>
<td>8</td>
<td>7</td>
<td>19.7 years (18-23)</td>
<td>2.6 years (0.7–5.6)*</td>
<td>Direct to work (4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Direct to University (4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Work &amp; attending University (7)</td>
</tr>
<tr>
<td>Older Adults</td>
<td>8</td>
<td>7</td>
<td>64.8 years (59-70)</td>
<td>3.6 years (1-10)</td>
<td>Health care (3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Social work (3)</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td>Education (2)</td>
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<td></td>
<td>Civil Engineering (2)</td>
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<td></td>
<td></td>
<td></td>
<td>Customer Service (2)</td>
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<td></td>
<td></td>
<td></td>
<td>Law/Property Management (2)**</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>Publishing (1)</td>
</tr>
</tbody>
</table>

* In the UK, secondary school begins at age 11, and students may choose to leave school at any time after they are 16, or remain in school for one or two more years to undertake further study that prepares them for University or employment.

** Frequently seen together in the UK; the participants were a solicitor and a chartered surveyor.
Table 3. Young Adult and Retiree Descriptions of Photos Taken

<table>
<thead>
<tr>
<th>Researcher-developed category used in categorisation exercise</th>
<th>Young Adults description(s) of the category</th>
<th>Retiree description(s) of the category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Own or friend’s art</td>
<td>Own or spouse’s art</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Buildings &amp; history</td>
</tr>
<tr>
<td>Attitudes &amp; Beliefs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family &amp; Pets</td>
<td>Family</td>
<td>Family, grandchildren &amp; pets</td>
</tr>
<tr>
<td></td>
<td>Holiday (friends or family)</td>
<td>Old photos of self or family</td>
</tr>
<tr>
<td>Food</td>
<td>Food or Drinks</td>
<td>Food</td>
</tr>
<tr>
<td>Friends &amp; Peer Relationships</td>
<td>Night out with friends</td>
<td>Friends</td>
</tr>
<tr>
<td>Holiday &amp; Travel</td>
<td>Holiday (friends or family)</td>
<td>On holiday</td>
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<tr>
<td></td>
<td></td>
<td>Buildings &amp; history</td>
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<tr>
<td>Parties &amp; Celebrations</td>
<td>Birthdays, Halloween, Parties</td>
<td>Celebrations or special events</td>
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<tr>
<td>Personal Style and Self Image</td>
<td>Leaving school, volunteering, work</td>
<td>Work or volunteering</td>
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<tr>
<td></td>
<td>Baby or embarrassing photos</td>
<td>Old photos of self or family</td>
</tr>
<tr>
<td></td>
<td>Me with…or Me at…</td>
<td>Me with…</td>
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<td>Sports &amp; Activities</td>
<td>Activities</td>
<td>Sport and Activities</td>
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<tr>
<td></td>
<td>Items bought or received</td>
<td>Documenting things</td>
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<tr>
<td></td>
<td>Funny</td>
<td>Funny/daft things</td>
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<td>Views and fireworks</td>
<td>Scenery, views &amp; flowers</td>
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<td></td>
<td>Zoo photos</td>
<td>Birds &amp; Wildlife</td>
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<td></td>
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<td>Health issues</td>
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<tr>
<td></td>
<td>Something has happened</td>
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</tr>
<tr>
<td>Category</td>
<td>Value</td>
<td></td>
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<tr>
<td>------------------------------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td>63</td>
<td></td>
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<td>Attitudes &amp; Beliefs</td>
<td>0</td>
<td></td>
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<tr>
<td>Family &amp; Pets</td>
<td>73</td>
<td></td>
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<tr>
<td>Food</td>
<td>29</td>
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<td>Friends &amp; Peer Relationships</td>
<td>431</td>
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<tr>
<td>Holiday &amp; travel</td>
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<tr>
<td>Negative Imagery</td>
<td>12</td>
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<tr>
<td>Parties &amp; Celebrations</td>
<td>208</td>
<td></td>
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<tr>
<td>Personal Style &amp; Self Imagery</td>
<td>230</td>
<td></td>
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<tr>
<td>Positive Imagery</td>
<td>36</td>
<td></td>
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<tr>
<td>Sports &amp; Activities</td>
<td>33</td>
<td></td>
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</table>
Photographs removed from manuscript. Redacted photographs will appear in the final published version.
Figure Captions

Fig. 1. How photos were categorised by 22 young adult participants (n=850 photos). Participants could choose more than one photo category to describe a photo.

Fig. 2a Personal style and self image: Leaving School (Participant Kirsty18); Fig. 2b Personal style and self image: Work (Participant John69); Fig. 2c Parties & Celebrations (categorisation exercise)

Fig. 3a Friends (categorisation exercise); Fig. 3b Food (categorisation exercise); Fig. 3c Something has Happened (Participant Rebecca21); Fig. 3d Buildings & History (Participant Moira63)