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Digital Photographic Practices as Expressions of Personhood and Identity

Orzech, Kathryn; Moncur, Wendy; Durrant, Abigail ; James, Stuart ; Collomosse, John

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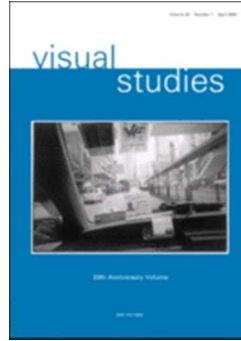
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Digital Photographic Practices as Expressions of Personhood and Identity: Variations Across School Leavers and Recent Retirees

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

Dr Kathryn M. Orzech (Corresponding author)

Living Digital Group, Duncan of Jordanstone College of Art and Design, University of Dundee

Perth Road, Dundee, DD1 4HN, UK. +44-1382-386538. kathrynorzech@gmail.com

Dr Kathryn M. Orzech is a research fellow interested in how online life and connectivity change across the physical lifespan. Her research focuses on the intersections of anthropology, digital technology, and health.

Dr Wendy Moncur, FRSA

Living Digital Group, Duncan of Jordanstone College of Art and Design, University of Dundee

Perth Road, Dundee, DD1 4HN, UK. +44-1382-386538. wmoncur@dundee.ac.uk

Dr Wendy Moncur holds an Interdisciplinary Chair in Digital Living at the University of Dundee, where she leads the Living Digital group. Her interdisciplinary research focuses on the design of digital technologies to support lived human experience across the lifespan, and is grounded in Human-Computer Interaction.

Dr Abigail Durrant

School of Design, Faculty of Arts, Design & Social Sciences, Northumbria University

Newcastle upon Tyne, NE1 8ST, UK +44 191 215 6338.abigail.durrant@northumbria.ac.uk

Dr Abigail Durrant is Associate Professor and Leverhulme Fellow in the School of Design at Northumbria University, UK. Her research primarily explores the design of digital systems and services to support the expression of selfhood and identity, focusing on the use of photographic media and engaging visual methods. Abigail's fellowship work investigates how design research can deliver transferrable value within interdisciplinary project teams.

Dr Stuart James

Centre for Vision, Speech and Signal Processing, University of Surrey

388 Stag Hill, Guildford GU2 7XH, United Kingdom, UK.+44-1483-686035. s.james@surrey.ac.uk

Dr Stuart James is a Research Fellow in Visual Information Retrieval. His research focuses on visual big-data driven machine learning problems applied to a variety of fields including Human-Computer Interaction and Digital Humanities.

Dr John Collomosse

Centre for Vision, Speech and Signal Processing, University of Surrey

388 Stag Hill, Guildford GU2 7XH, United Kingdom, UK.+44-1483-

686035. j.collomosse@surrey.ac.uk

Dr. John Collomosse is a Reader (Assoc. Prof.) within CVSSP at the University of Surrey and a Visiting Professor at Adobe Systems, San Jose (CA). His research fuses Computer Vision, Graphics and Machine Learning to tackle Big Data problems in visual media, with particular emphasis on post-production in the creative industries and intelligent algorithms for searching and rendering large visual media repositories.

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' 'Snaps'. 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; Snaps; 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

¹ www.facebook.com

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3 participants represented two different life transitions in the UK: (i) leaving secondary
4 school (referred to in this paper as *young adults*); and (ii) retiring from work (referred
5 to as *retirees*). We chose to study these two groups for two main reasons. First, how
6 the self is represented photographically may change across the transition of either
7 leaving secondary school or retiring. Second, these two groups may provide disparate
8 perspectives on a topic relevant across the human lifespan - the future of photo
9 capture and sharing - because of their differing ages and life experience with
10 technology.
11

12
13 By thinking about how our participants were ‘doing’ photography in the context of a
14 transition, we were able to develop insights into the context of our participants’ lives,
15 not just their photo-taking behavior in isolation. This approach allowed us to
16 understand how taking and sharing photos currently varies across the lifespan, and
17 how this social function of photography may change as today’s young adults become
18 retirees in the future.
19

20 21 **BACKGROUND**

22 23 **Photographic Practices as Components of Digital Identity and Personhood**

24
25 Taking and sharing photos is a way for an individual to express versions of their
26 experiences (Radley 2010), and to capture and invoke memories (Kuhn 2007). Photos
27 may be widely shared with friends and to the world (Van Dijck 2011). As
28 contemporary sharing of photos increasingly involves use of the Internet, photography
29 contributes to online “knowledge production, interventions, and social action”
30 (Luttrell and Chalfen 2010, 197). It also serves as a medium for self-expression and
31 identity in digital contexts (boyd and Ellison 2007; Graham et al. 2011; Mendelson
32 and Papacharissi 2011; Sarvas and Frohlich 2011).
33
34

35
36 The role of photography in self-expression and identity can be understood through
37 Goffman’s concept of the performance of self, whereby individuals craft and
38 ‘perform’ edited representations of their social identities, and adapt them to fit
39 different audiences (Goffman 1959). Photographs can serve as powerful visual
40 elements in these performances of self. Their role has arguably been amplified as “the
41 medium of dissemination” (Luhmann, cited by Lee, Goede, and Shryock 2010, 142)
42 has shifted from print to pixel, and the cost (both financial and time-based) in copying
43 and sharing photos has dropped significantly. This shift means that photos can now be
44 shared online with large audiences with ease and minimal cost beyond that associated
45 with being the owner of a smartphone.
46
47

48
49 Alongside the amplification of the role of photography in self-expression and identity
50 comes a unification of photography with other media. Lee et al note that “the digital
51 medium unifies the differences between text, music, photographs and other media;
52 interrupting their ability to restore form to communication on their own terms” (2010,
53 141). Photos no longer stand alone: they have associated metadata, tags, and
54 associations with other media in their presentation online, which enrich and
55 contextualize their meaning (Botticello, Fisher, and Woodward 2016; Rose 2016;
56 Pauwels 2015)
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3 Thus digital photos contribute to the milieu of an individual's *digital identity*. This
4 term describes "how the data or information referring to people is created, captured,
5 managed, verified and (ab)used by themselves and/or others (individuals, businesses
6 or government) in life and death" (Engineering and Physical Sciences Research
7 Council 2015). A digital identity may include traditional identity information -
8 physical characteristics like biometrics, name, and address (Emanuel and Stanton
9 Fraser 2014) - as well as digital attributes like email address (Foresight Future
10 Identities 2013), and online traces - the things that we post or that others post for us
11 (such as photos, status updates, reports published online, or videotaped
12 performances). Lee et al integrate the concept of digital identity in their discussion of
13 *digital personhood*, which they define as having five elements: 1) a profile created on
14 an online social network service, 2) expansion of one's social media profile to allow
15 for friend-seeking through shared likes/dislikes, 3) a digital "address" 4) participation
16 in digital friendships² and 5) validation of the digital personhood of others. In short,
17 digital personhood requires not only identity information to be present online, but also
18 some interaction with others around that information. This leads us to the concept of
19 *networked individualism* (Rainie and Wellman 2012).
20
21

22
23 The enactment of an individual's multi-faceted digital identity and digital personhood
24 is performed through a networked individualism that enables individuals to "support,
25 supplement and enhance face-to-face interaction" (Rainie and Wellman 2012, 166).
26 An important element of this networked individualism lies in networked content
27 production, enabling individuals to perform their identities to wide audiences (ibid).
28 In turn, members of these audiences can choose what content they want to consume,
29 and also what content they want to edit and share with their own audiences.
30
31

32 **Photographic practices across age groups and life transitions**

33
34 The enactment of digital personhood is increasingly performed by both young and old
35 (Smith 2014; Madden et al. 2013). However, beyond broad theoretical distinctions
36 (for example, between Kodak Culture and Snaps described above), the literature
37 reporting on the behavior of young adults and older adults around photographic
38 practices often points in different directions. Research on young adults' practices
39 tends to focus on use of photos for self-presentation (Mendelson and Papacharissi
40 2011; Mazur and Kozarian 2010), and in particular, problematic photo sharing such as
41 sexting (Chalfen 2009; Weiss and Samenow 2010). Research on older adults'
42 photographic practices is more diverse. Baecker and colleagues, among others, have
43 focused their work on older adults using visual digital media to reflect on past
44 experiences, e.g., (2012), whilst Waycott and colleagues (2013) focused specifically
45 on older adult content production through a prototype iPad application (app).
46
47

48
49 Although extant literature suggests that individuals may capture and share more
50 photos at life transitions, a comprehensive study to support this contention has not
51 been undertaken, likely because it would require following large numbers of
52 participants for an uncertain amount of time as they moved through their lives. The
53 duration of a life transition might vary across participants: while the actual transition
54 event (leaving secondary school) could be accomplished in a single day, the changes
55

56
57 ² For example, when you become friends with someone, you expect that they will visit your profile and comment
58 on it.
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3 associated with moving from a secondary student role into further education, training,
4 or employment, could span several months or more, with photographic practices
5 changing incrementally over this period. The sociology literature suggests that studies
6 of individuals' experiences of transitions tend to focus on the impact of historical
7 events (e.g., the Great Depression or World War Two) or early life events (e.g.,
8 childhood trauma or entering the first year of school) on subsequent life patterns
9 (George 1993). Our study reported herein differs from these studies by focusing on *a*
10 *particular set of behaviors* (photo taking and sharing) at *two life transitions*, and
11 asking what we can learn about present variations - and infer about future ones - in
12 these behaviors, based on how our different-age participants behave.

13 14 15 **Current Norms and Reflections on the Future of Photographic Practices**

16
17 In addition to examining photographic practices through the lens of digital
18 personhood, we ask why young adults and retirees share photos as they do, and what
19 conclusions might be drawn about the future of photo-sharing based on emerging
20 *digital social norms*. Social norms refer to “prescriptions of behaviors and attitudes
21 that are considered acceptable or not in a given social unit” (Chekroun 2008, 2142).
22 We define digital social norms as *socially normative behavior in a digital age*,
23 discerned from social expectations of online behavior that are often not articulated,
24 and how individuals respond to these expectations. Researchers characterizing social
25 media have expressed these types of norms (e.g., Fleming, Vandermause, and Shaw
26 2014; Tufekci 2008; Anonymised for Review, n.d.) but not with a specific focus on
27 photos, across life stages, nor with a focus on what current online behavior may mean
28 for the future.

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30
31
32 The design of our larger study, *Anonymised for Review*, allows us to explore variation
33 among younger and older users in the context of photo taking and sharing. Although
34 our approach is necessarily cross-sectional, capturing a transitional period in each
35 participant's life rather than following participants longitudinally *across* the lifespan,
36 reflecting on photographic practices across life transitions permits us to see both
37 groups celebrating rites of passage, reconfiguring their balance between school/work
38 and leisure activities, and making changes to their online presence. With data on these
39 changes, we begin to build evidence for complexity and variation in the presentation
40 of digital self across age groups, to question the future of photo taking and sharing
41 based on what we know about current practices, and also to address the dichotomy
42 between Kodak Culture and Snaps first raised by Miller and Edwards (2007) that
43 remains pertinent today.

44 45 46 **APPROACH**

47 48 49 **Methods**

50
51
52 *Method 1:* Our methodological approach involved conducting a qualitative
53 ethnographic study of participants' online lives. Ethnography is defined as “a
54 scientific approach to discovering and investigating social and cultural patterns and
55 meaning in communities, institutions and other social settings.” (Schensul, Schensul,
56 and LeCompte 1999, 1) and can be accomplished through a variety of qualitative and
57 quantitative methods. Table 1 presents details on our qualitative methods of semi-
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3 structured interviews and participant observation, along with a brief description of the
4 data derived from each method.
5

6 [Insert Table 1 About here]
7

8 The research participants were (i) 15 young adults who had recently left secondary
9 school, and (ii) 15 retirees, who had recently retired from work. Interviews and
10 observations all took place in the same mid-sized city (~150,000 residents) in the UK
11 between December 2013 and March 2014. Our participants were recruited through
12 community contacts. They were ordinary individuals, not early technology adopters,
13 recruited so that we could study their personal practices around taking and sharing
14 photos. Table 2 presents brief demographic information about study participants,
15 included to show that we sought diversity of sex, age, and occupation among
16 participants in our qualitative ethnographic study.
17

18
19 [Insert Table 2 about Here]
20

21 During the semi-structured interviews, participants were asked four specific questions
22 about their photo taking and sharing behavior:
23

- 24 • *What types of photos are taken?*
- 25 • *How are photos shared?*
- 26 • *Why are photos shared?*
- 27 • *What is the future of photos in online life?*

28 We asked participants to think broadly about their photo taking and sharing behavior,
29 not just taking photos on their mobile phone and sharing via Facebook. In particular,
30 we encouraged reflection upon the types of subject matter represented within the
31 photo content that participants shared, whilst minimizing our influence regarding
32 what those content classes (topics) *should* be. We asked participants to describe the
33 types of photos that they took, rather than (for example) ask them to sort a set of
34 photos to derive classes. By interviewing participants shortly after they experienced a
35 life transition, we captured their perceptions and behavior around what changed in
36 their ‘digital lives’ as they made the transition. With technology such as Facebook and
37 mobile phone cameras at their disposal, our participants could easily show us what
38 they were taking pictures of ‘now’, i.e. at the current time, and in some cases take us
39 ‘back’ to the time of the transition to show us what they were taking pictures of ‘then’
40 as well. Whilst our method did not involve a formal photo elicitation technique (Pink
41 2013), we did use the photos that were shown and available ‘to-hand’ to *stimulate*
42 *sense making* at interview between the researcher and participant, and to help develop
43 the researcher’s ethnographic insight.
44
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46

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

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

16
17 The specifics of the machine learning software are beyond the scope of this paper, but
18 see (Anonymised for Review, n.d.) for details. Please see Table 3 in the Findings
19 section for a visual representation of how the categories of Method 2 were related to
20 the category descriptions provided by interviewees in Method 1.
21
22

23 **Data Analysis**

24
25 Analysis of Method 1 data focused on ‘photo-talk’ in the research context (Frohlich et
26 al. 2002; Anonymised for Review, n.d.). Interviews and field notes were analyzed
27 using a Grounded Theory (GT) approach (Charmaz 2011; Strauss and Corbin 1990),
28 which involves letting theory develop out of the data collected. This is achieved by
29 first identifying initial themes through the line-by-line process of open coding, and
30 then refining these themes into focused codes applied to additional transcripts. This
31 approach allowed us to identify individual perceptions of everyday life experiences
32 without preconceptions. For this paper, the focused codes “photo/video”, “online
33 self,” “online community,” “content groups,” “browsing” and “future of technology”
34 were considered in developing theory about photo taking and sharing.
35
36

37
38 Within this process, the content of photos was analyzed in terms of the interviewee’s
39 *description* of the photo at interview and in the context of applying GT, not through
40 conducting a separate content analysis (Pink 2013). As each interviewee responded to
41 the first question (*What types of photos are taken?*), the first author *classified* each
42 photo as it was discussed during the interview; for example, if a participant’s
43 description was “that’s a party photo” then the photo was classified as a “party” class
44 of photo. As the ‘classes’ of photos developed during the GT analysis, the “party”
45 photo was re-classified under “Celebrations”. At the point in the project when the
46 Method 2 exercise was held, nine classes (mentioned above), determined through
47 researcher knowledge of photo classes commonly posted on Facebook, combined
48 with pilot interviews with young adults had already been generated. So participants
49 taking part in the Method 2 exercise manually selected one or more of the existing
50 classes to apply to each photo that they saw. One of the challenges and rewards of this
51 analysis was that research collaborators from very different disciplines –
52 anthropology, human-computer interaction, and computer vision – were all working
53 together to seek a cohesive explanation of how individuals classified photos.
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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

1
2
3 conference situation. Other photos captured by both young adults and retirees include
4 photos of family, holidays and travel, and parties and celebrations. Figure 2c shows a
5 photo typical of the parties/celebrations category for young adults – an 18th birthday.
6

7
8 [Insert Fig 2a-2c about here]

9
10 Figure 3a and 3b show young adults' photos that were classified as 'friends' and
11 'food'. Figure 3a depicts a group of friends. Figure 3b shows how the classes 'food'
12 and 'friends' may overlap. One type of photo was unique to young adults: the
13 "Something has happened" photo. This photo was designed to visually represent
14 one's current 'status' and was posted to social media very soon after an event
15 happened. Figure 3c shows a Facebook status update photo described by participant
16 Rebecca21:
17

18
19 "That's an example of something I would put as a Facebook
20 status, where I cut my foot open on a broken bottle at a Bastille
21 Day party in France, and it was properly bleeding. Then all these
22 guys who I'd met through the club [said], "Oh my God, she's
23 bleeding," carried me up to a bar area and they tried to do first aid,
24 while my brother frantically ran about trying to find my parents.
25 So that was good fun."
26

27 Two types of photos were unique to older adults – photos of architecture and
28 historical sites (See Figure 3d), and photos related to health issues. Some classes
29 differed in their emphasis across groups – for example, while photos of animals were
30 classed "zoo photos" by a young adult, older adults focused more on birds and other
31 wildlife in natural settings. Similarly, while young adults described a photo category
32 as showing items that they purchased or received as a gift (a camera, a unique pair of
33 shoes, truck tires) older adults documented things like structural repairs and house
34 contents for insurance.
35

36 [Insert Fig. 3a – d about here]
37
38

39 How Photos Are Shared

40
41 For almost all of our young adults, Facebook³ was their location of choice for sharing
42 photos. The one exception did not have a smartphone and made minimal use of
43 Facebook, although he still maintained an account he occasionally accessed on the
44 computer. There was a focus on giving almost-immediate status updates online.
45 Instagram, Twitter⁴ and the ephemeral-photo app Snapchat⁵ were also popular with
46 our young adults. Some also occasionally shared photos via Reddit⁶. One young adult
47 used WhatsApp for sending photos to others because it was free. Two young adults
48 referred to occasional photo-printing by themselves or friends, for example: "My
49 friend actually has this [embarrassing photo of me] printed out and stuck on his wall"
50 (Lewis19).
51
52
53
54

55
56 ³ <https://www.facebook.com/>

57 ⁴ <https://twitter.com/>

58 ⁵ <https://www.snapchat.com/>

59 ⁶ <http://www.reddit.com/>
60

1
2
3 Our retirees exhibited a range of photo sharing practices that were distinct from those
4 of the young adults. Five retirees did not share digital photos online at all: however,
5 three of them did occasionally print out photos, or showed them to others on their
6 phone or computer. This offline sharing was sometimes used to document a period of
7 time: for example, one retiree held a “winter slideshow” for the youth group that he
8 worked with as a volunteer. Amongst retirees that did share digital photos online, the
9 most popular approach was to attach photos to an email. Only one participant posted
10 photos on Twitter: these were mostly of her walking group in scenic locations, and of
11 knitting problems. Three retirees had used or hoped to use Flickr⁷ to organize and
12 share photos, while two reported attaching or receiving photos via text messages or
13 the messenger WhatsApp⁸. Although two-thirds of retirees had Facebook accounts,
14 only one was a regular Facebook user and poster of photos, and five others reported
15 that they currently or had previously shared photos on Facebook. Finally, two retirees
16 emphatically did not want to share photos on Facebook, due to privacy concerns:
17
18

19
20 “I don’t fully understand because ...if I post something, I don’t
21 have the full confidence that I’m saying something private that
22 remains private and I don’t want my photograph shown all over the
23 world.” (Ken60)
24

25 Why Photos Are Shared

26
27 For both our young adults and retirees, a common motivation for photo sharing was to
28 share a memory. For young adults, this motivation was often linked to connecting to
29 friends. They were sharing memories in the sense of posting photos from events
30 where their friends or family had been co-present, including events around their
31 recent life transition of leaving school. For four of the young adults, this theme of
32 sharing photos and memories figured prominently in their stories of why they started
33 using Facebook:
34

35
36 “I didn’t get Facebook until... summer 2009. And it’s only
37 because I met a load of good people on holiday. We were at a
38 caravan park... We were all saying goodbye at the end, it was like,
39 ‘Oh, do you have Facebook?’ and I was like, ‘No’. Then I thought,
40 ‘I’ll get it so that we can share photos and things.’” (Rebecca21)
41

42 For the retirees, sharing a memory could mean sharing photos with family or friends
43 who had been co-present at an event, but it could also mean documenting an event,
44 person, or place to show to absent friends, or for posterity. For example, Douglas60
45 had posted old family photos to a genealogy website, and a picture of his wife’s father
46 to the Royal Navy website⁹, while another retiree took and posted photos of a special
47 tree-planting ceremony:
48

49
50 “Last year there was an assembly in [place name], they planted a
51 coronation tree to celebrate the Queen’s sixtieth anniversary on the
52 throne and there had been a tree planted in 1953, so I was asked to
53 take some photographs and I put them on a website for the people
54 who were there to share.” (Donald65)
55

56 ⁷ <https://www.flickr.com/>

57 ⁸ <https://www.whatsapp.com/>

58 ⁹ <http://www.royalnavy.mod.uk/>
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4 A common experience for the young adults in photo sharing was that they were
5 tagged in a photo that was shared by someone else on Facebook. Although no retirees
6 reported that others shared photos of them, when we visited their Facebook pages
7 with them, we found that six participants had been tagged in Facebook photos,
8 although it was often one or two photos versus tens or hundreds in which young
9 adults may be tagged.
10

11 **Digital Personhood**

12
13
14 Participants in both groups showed ‘who they were’ through photos online, although
15 this was far more common in young adults than the retirees. The young adults
16 reported sharing photos to “let people know what I’ve been up to”, or “to keep in
17 touch”. For many of these participants, posting photos almost always took the place
18 of posting a written status update on Facebook. For example:
19

20
21 “I uploaded loads when I was in Peru so I think that’s probably
22 the time that I’ve uploaded the most photos...it was like... travel,
23 kind of my entire life in Peru. I wanted to show everyone what it
24 was like really...this was how I’d told my friends and my parents
25 and my family and everything what was going on. When you can’t
26 really talk to people as often, it’s easier just to post lots of photos
27 so they can see.” (Megan22)
28

29
30 Three young adults specifically mentioned capturing a sense of their identity as a
31 reason for sharing a photo, for example: “One night we were playing Harry Potter
32 Cluedo with wine and cake and I felt, ‘This is so typical of us’ and took a picture...”
33 (Rebecca21).

34
35 Some young adults had mixed feelings about documenting their identity online. For
36 example, Andrew21 deleted “a load” of photos of himself volunteering in Kenya,
37 including several pictures that had formerly been his profile pictures because: “...it
38 kind of cheapens the experience if part of your reason for doing something is to then
39 be able to share it and get recognition for it.” Here, Andrew showed he had clearly
40 been thinking about his online self-representation, but other young adults expressed a
41 similar idea in response to an interview question about seeking likes on social media,
42 with fewer than half our young adult interviewees admitting to posting photos simply
43 to seek ‘likes’.
44

45
46 In terms of photos at the life transition, all of the young adults had one or more photos
47 connected to their Facebook profile of the last day of school, an end-of-school dance,
48 their (or a friend’s) 18th birthday party, and/or a holiday taken with friends after
49 leaving school. For retirees, photos of life transition events – sixtieth birthdays, for
50 example, or retirement parties, were very rare. Only two participants mentioned
51 retirement parties in the interview, and only one had a photo of his party online,
52 perhaps because it connected to another part of his life:
53

54
55 “We’ve got a little band, a bunch of neighbours who play
56 Scottish music... and this is my retirement party... And it was a
57 surprise, they turned up in full outfits, I didn’t know they were
58 gonna be there, and we all played together at my retirement party,
59 which was a real hoot.” (John69)
60

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4 Among the retirees, only one participant talked explicitly about portraying himself
5 online through photos:
6

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

13 Two retirees showed themselves online in humorous ways (Ian60 called these
14 “Mickey Mouse profile photos”) or in a context of “Me with...” (for Tom69, with his
15 football hero, and with a cardboard cut-out of President Obama). Two others alluded
16 to “being honest” in photos of themselves shared online, one by updating his profile
17 photo regularly, even on un-used sites like LinkedIn, and another by posting a photo
18 on a dating website even though she declined to post a photo of herself on Facebook.
19

20
21 For retirees who rarely shared photos online, however, the theme of online danger
22 loomed large, with peril associated even with posting a picture of oneself on Skype¹⁰:
23

24 “We rapidly discovered that [if my wife] was [pictured] just as
25 herself, she got all sorts of propositions from people, you know,
26 who wanted to be her friend or her contact so ... we changed the
27 name so that it's both of us with a picture of us both... I've no
28 illusions as to what they're looking for, I just block it all.”
29 (Douglas60)
30

31 32 **Future of Photos in Online Life** 33

34 When asked about the future of photos in online life, most participants focused on the
35 speed of technological change to explain why it was hard for them to predict what
36 role photos would play in the future. Some of our young adults and retirees believed
37 that photos would still be ubiquitous, but their functions would depend upon what
38 kind of devices and media became common in the future. One retiree participant
39 reflected on what he perceived to be a continuing age-divide with regard to
40 technology:
41
42

43 “Youngsters will be growing up taking these things for
44 granted... instant access to anybody wherever in the world they
45 are, being able to - what's it called? – Snapchat. Instantly send a
46 photograph to somebody wherever they are. ...I don't [take it for
47 granted]...because so little of my life has actually been with that
48 technology.” (Ian60)
49

50 Other participants focused on the reality that part of their past is documented on
51 Facebook and other sites; several young adults specifically mentioned that this photo-
52 documentation links them to other people, and those links will persist into the future.
53 A few young adult participants thought that they might expand their current photo
54 archives more formally online (storing albums with “only me” privacy settings on
55
56
57

58 ¹⁰ <http://www.skype.com/en/>
59
60

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2
3 Facebook, for example), or completely replacing offline photo albums with digital
4 ones.

5
6 Digital images for surveillance and monitoring were also the subject of discussion by
7 both groups. They commented that this future was almost here¹¹ with the widespread
8 nature of closed circuit television (CCTV) deployed in the UK. This seemingly
9 ubiquitous CCTV, coupled with the potential unlocked by advancing facial
10 recognition technology, connected even in younger participants' minds to online
11 danger:
12

13
14 "I am sure it will be even fancier in 10 years' time.... Probably
15 be even easier to upload photos and maybe there'll even be
16 cameras, every single location in the world that will take a photo
17 for you. And they just upload it straight to Facebook...or maybe
18 face recognition will be like way easier so ...even if you are not
19 friends with the person it might immediately come up with who
20 they are...It would be, really awkward for everybody wouldn't
21 it...that person is in the background [of a photo in a nightclub] but
22 it immediately comes up with their name and it causes a lot of
23 awkwardness for them. They are probably doing something they
24 should not." (Megan22)
25
26

27 This participant - and others who envisioned a future where more could be known
28 about people by expanding access to the kind of information already available online -
29 was quick to point out that she would not like such an app to be used on her, however.
30
31

32 DISCUSSION

33
34 This paper has explored photo sharing during two life transitions: leaving secondary
35 school and retiring from work. The findings presented here arguably contribute novel
36 and valuable understanding of digital photographic practices, variations in behaviors
37 across young adults and retirees, and how digital photos serve as expressions of
38 personhood and identity. The findings also offer insight into how young adults may
39 continue to represent themselves through digital photos as they grow older and
40 become retirees themselves.
41

42
43 In this section, we begin to address social norms for digital photo taking and sharing
44 for individuals at different transition points in the human lifespan. We further explain
45 how these norms shape what kind of photo content is shared across life transitions as
46 an expression of digital personhood, and with whom they are shared. We then discuss
47 how young adults and retirees approach balancing convenience and privacy online,
48 and conclude by revisiting the Kodak Culture and Snaprs framework and by
49 theorizing future behavior of young adults, given our current findings.
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57 ¹¹ This 'future' is in fact already here, see Taigman, Yaniv, Ming Yang, Marc' Aurelio Ranzato, & Lior Wolf. 2014.
58 "Deepface: Closing the gap to human-level performance in face verification." In *Computer Vision and Pattern*
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60

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 ‘Frapping’, 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.

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3 Retirees treated digitally mediated photo sharing as an extension of their previous
4 behavior – sharing *physically* printed photos. They did not feel obligated to share
5 online or co-create identity in the way that our young adults did. Their photo sharing
6 behavior was constrained by potentially more limited peer groups on social networks.
7 It was also constrained by uncertainty about where photos ‘went’ once they were
8 posted online. These practical problems and privacy concerns led retirees to favor the
9 use of named recipients and limited channels (via email and text messages) when
10 sharing photos. Although retirees completed many tasks online, and were drawn to the
11 instant availability of information, social norms around sharing one’s life online
12 reflected that developing and maintaining relationships was mainly an offline activity
13 for them.
14
15

16 There are several possible explanations for why the retirement life transition was
17 photographed less (or at least, shared less) than the leaving secondary school
18 transition. In addition to the possibility that our older participants were less photo-
19 oriented than their younger counterparts (not as prone to snap a picture), several of
20 them were self-employed or working from home, so perhaps they did not have a
21 retirement party. At least two participants had other life circumstances that may have
22 precluded retirement from being a big event (for example, losing their partner around
23 the time of retirement). Finally, parties that did happen may have been enjoyed by
24 retirees in the moment, without them feeling a need to document and share the event.
25
26
27

28 **Balancing Convenience and Privacy**

29
30 We found variable tensions between convenience and privacy amongst our
31 participants. Previous work has explored these tensions – e.g. (Chin et al. 2012;
32 Kolimi, Zhu, and Carpenter 2012; Anonymised for Review, n.d.), including in the
33 specific context of photo sharing (Ahern et al. 2007; Anonymised for Review, n.d.).
34 Both groups valued the sense of being connected and being in touch with others that
35 being online brought with it – with the caveat that sometimes they did not want to
36 share their life (or their photo) with everyone. The value of convenience, and the
37 digital social norms of identity co-creation and sharing with friends, won out for most
38 of the young adults over privacy concerns when it came to sharing photos on
39 Facebook, even though they articulated concern about the ever-widening audience of
40 the site. Retirees attributed greater weight to online privacy concerns, and this mostly
41 kept them from sharing on Facebook.
42
43
44

45 **Kodak Culture for All**

46
47 Despite extant theoretical discussion of the photographic practice of Kodak Culture
48 versus Snaps, both young adults and retirees in our study still practiced Kodak
49 Culture. They took photos of events like holidays and celebrations, and shared those
50 photos with key people linked to the photo subjects (Chalfen 1987), whether that
51 sharing was accomplished on a semi-public platform like Facebook, or more privately
52 through email or a text message attachment. In keeping with the traditions of film
53 photography, both young adults and retirees talked about printing photos,
54 demonstrating their value as tangible reminders.
55
56

57 In addition to practicing Kodak Culture, the young adults also embraced the
58 photography of the everyday and widespread sharing that characterizes Snaps (Miller
59
60

1
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3 and Edwards 2007; Sarvas and Frohlich 2011). We suggest that the theoretical
4 distinction between Kodak Culture and Snaprs is not an either/or situation, but an
5 additive way to understand the ‘social practices around photography’ (Lindley et al.
6 2008), advancing the discourse in visual studies and related fields.
7

8 **Future of Photo Sharing Technology**

9
10 When reflecting on the future of photo sharing, participants expressed concern about
11 what would happen to the digital photos that are becoming a ubiquitous means to
12 communicate, irrespective of whether they are casually or carefully shared and stored
13 online. During interviews, young adults and retirees both commented on the fast pace
14 of technology change, and expressed a desire to keep up with this rapid change rather
15 than focusing on deeper issues of how technology is changing human behavior. While
16 participants in both groups said that they liked browsing on the Internet, they also
17 voiced concern about being the subject of others’ browsing activity, especially in a
18 future where photos may be taken and posted without consent, and where online
19 information (like relationship status) may be even more widely available.
20

21
22 Our evidence, building upon extant research, indicates that digital social norms for
23 young adults are stronger than for retirees, with almost all young adults maintaining
24 friendships and “keeping in touch with” family and friends on Facebook (and also
25 Snapchat and Instagram) (Jang et al. 2015; Joinson 2008; Mazur and Kozarian 2010;
26 Mendelson and Papacharissi 2011; Tinkler 2008). Consistent with observations by
27 Lee et al (2010), photos contribute to young adults’ efforts at keeping in touch as part
28 of an ecology of digital media and metadata, rather than as standalone artefacts. For
29 retirees, keeping in touch online is less expected because, unlike young adults, retirees
30 have not been engaged in such practices since their early adolescence.
31 Communication by phone or email is socially acceptable, and it is not assumed that
32 every communication must be illustrated (Hope, Schwaba, and Piper 2014).
33

34
35 Both young adults and retirees may also be choosing their preferred communication
36 channel based on the recipient of the communication, going on Facebook because
37 friends or family are there, or choosing to video chat or email with particularly close
38 contacts (see Bales and Lindley 2013 for a discussion of this among University
39 students). As young adults age, we suggest that they will continue to engage in their
40 existing digital photo practices because the norm of visually “keeping in touch” will
41 likely continue to be a digital social norm for those individuals.
42

43
44 Both of our participant groups viewed the spread of the Internet and digital photos
45 positively – allowing them to be connected, keep in touch, and have information at
46 their fingertips. However, they did not want to be browsed in the same way they
47 browse others. Jiang and colleagues (2013) explore how common latent interactions
48 are on a Chinese social network, but future research might address people’s actual
49 browsing activities as well as their perceptions of ‘who’ browses them on social
50 media. As young adults grow older, there may be a browsing-related backlash, where
51 users demand more protected browsing - or at least more information about who is
52 browsing them.
53

54
55 Our findings suggest that, in the future, retirees are likely to have a longer history of
56 technology adoption behind them than most of the retirees who took part in our study
57 did. They may be more ‘tech-savvy’ as a result. The retirees in our study were born
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3 long before the Internet was widely used. What we can learn from our sample of
4 retirees is that they are generally more concerned with sharing their lived experiences
5 of the world that they inhabit, for example, through photos of architecture, knitting,
6 bird-watching; the camera's lens is usually turned *outwards towards the world*, not
7 inwards to the individual. We anticipate that future retirees are likely to be sensitized
8 to the growing list of digital social norms prevalent online, although these are likely to
9 evolve over time with the incessant advent of new technologies. The volume of photo
10 posting common amongst young adults may well slow down, as privacy concerns
11 develop along with maturity, and egocentricity gives way to outward-looking interests
12 in family and community. It is certain that participants' world views will continue to
13 shape their use of digital technology, just as digital technology continues to shape
14 their world views. Finally, our findings suggest that both young and old will retain a
15 hypocritical stance when it comes to browsing others online. Just like offline gossip,
16 people are happy to do it, but not so happy to be the subject of it themselves.
17
18

19 CONCLUSION

20
21 This paper extends the established discourse about the social function of photography
22 as a medium for self-expression and identity management in a digital context, as well
23 as the mechanics of sharing photos. It does this by detailing the photo taking and
24 sharing practices in two life transition groups: young adults leaving secondary school;
25 and older adults who have recently retired from work. To support our claim herein
26 that Kodak Culture and Snaps may not be such a binary distinction, we have drawn
27 upon our ethnographic and photo-classification research among research participants
28 at these two life transitions. We found that both groups photographed similar subjects
29 and wanted to share photos for similar reasons, but that the young adults used shared
30 photos as part of their self-expression far more readily and at greater volume than the
31 retirees. The young adults regularly constructed their digital identities and digital
32 personhood using photos they posted combined with photos posted by others. The use
33 of photos to express a sense of self was not *absent* in retirees, but they were much
34 more careful and considered about their digital identity. This attitude toward digital
35 personhood may affect photo sharing in the future, although desire for convenient
36 access to knowledge and connection with others - especially at key transition points in
37 the human lifespan - may ultimately outweigh concerns for privacy and a carefully
38 curated presentation of self.
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Table 1. Qualitative Ethnographic Methods Used

Qualitative Method	Description of Method	Data Collected
Semi-structured interview	<p>One-on-one interviews lasting 1.5 – 2 hours. Interview included questions about:</p> <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> ○ to discuss photo taking and sharing ○ to ask participants to categorize the types of photos they took, in their own words 	<ul style="list-style-type: none"> • 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	<p>Informal conversations with individuals about technology use, and observations of technology use in public places in the city where the research took place</p>	<p>Field notes pertaining to young and older adults</p>

Table 2. Participant Demographics

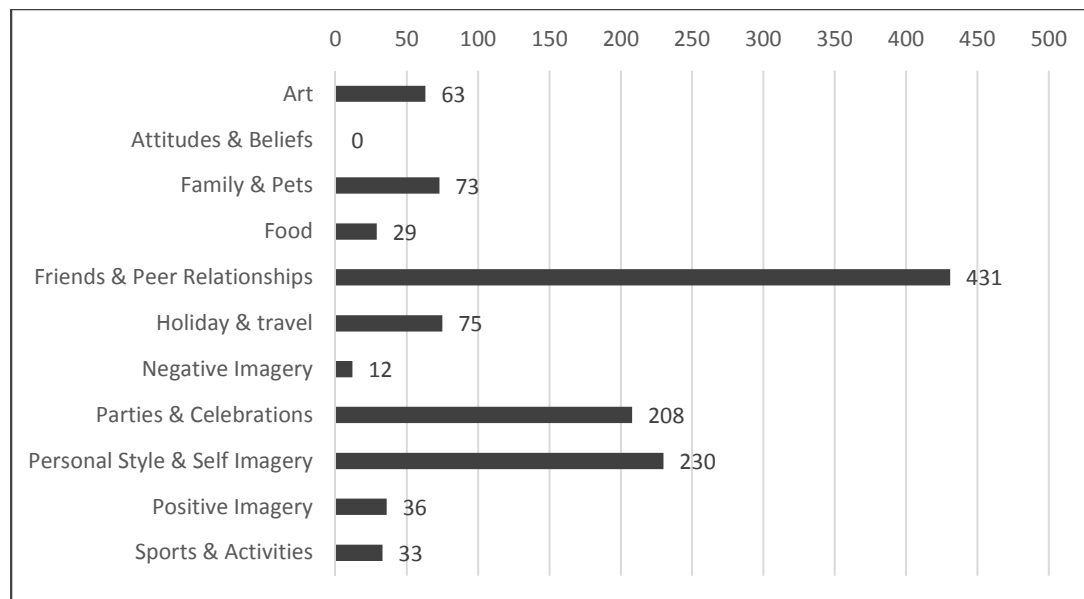
Group	Male	Female	Mean age (range)	Average time between transition and interview (range)	Career area
Young Adults	8	7	19.7 years (18-23)	2.6 years (0.7–5.6)*	Direct to work (4) Direct to University (4) Work & attending University (7)
Older Adults	8	7	64.8 years (59-70)	3.6 years (1-10)	Health care (3)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

* 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

Researcher-developed category used in categorisation exercise	Young Adults description(s) of the category	Retiree description(s) of the category
Art	Own or friend's art	Own or spouse's art Buildings & history
Attitudes & Beliefs		
Family & Pets	Family Holiday (friends or family)	Family, grandchildren & pets Old photos of self or family
Food	Food or Drinks	Food
Friends & Peer Relationships	Night out with friends	Friends
Holiday & Travel	Holiday (friends or family)	On holiday Buildings & history
Parties & Celebrations	Birthdays, Halloween, Parties	Celebrations or special events
Personal Style and Self Image	Leaving school, volunteering, work Baby or embarrassing photos Me with...or Me at...	Work or volunteering Old photos of self or family Me with...
Sports & Activities	Activities	Sport and Activities
	Items bought or received	Documenting things
	Funny	Funny/daft things
	Views and fireworks	Scenery, views & flowers
	Zoo photos	Birds & Wildlife
		Health issues
	Something has happened	



Peer Review Only

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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)

or Peer Review Only