Jamming and researching the Play BOOST framework

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Abstract
In this paper, I will try to motivate my participation in the Game Jam [4Research] at CHI 2014 by introducing the research interests and the research question that I would like to address during the event. Then, I will conclude with my personal position regarding this game jam, and an abridged of my bio, and expertise.

Author Keywords
Game, play, playfulness, movement, design, social play, Play BOOST, design framework, technology—supported.

ACM Classification Keywords
H5.m. Information interfaces and presentation (e.g., HCI): Miscellaneous.

Introduction
The challenge of designing for games and playful activities has moved past the technical, to focus on how to design and evaluate for a design space where the threads of the digital technologies and the physical world interweave and entangle creating a hybrid fabric where play can take place [5].

But how can we bridge between the digital and physical world where play is enacted and unravel the tangle of this hybrid fabric? How can we braid the physical and
digital threads to spur playful experiences? In my PhD thesis, I’m focusing on a concrete fabric of hybrid play: co–located physical and social play, and I propose a framework for design in this scenario: what I called the PLAY BOOST (BOdily-Oriented, Social, and Technology—supported) framework [10].

The framework is elaborated and substantiated through design concepts drawn from literature – in the fields of movement-based games, social play, physical play, and playfulness ([1, 2, 3, 4, 5, 6, 11, 12, 13], just to name but a few references)— as well as from my own experiences designing movement-based body games and physical and social activities [8, 9, 10].

The Play BOOST framework
In my thesis, I’m using the PLAY BOOST framework as a tool in the form of lenses, which can be used both for opening up the design space, and for studying playfulness. The framework emphasizes the interplay between the formal structure of the activity and how it is implemented using certain design resources: the technology and the socio-spatial setting.

I have used a particular perspective to spur and study playfulness, in which play is understood as “free movement within rigid structures” [12].

With this approach, I use both the formal elements and the design resources to design a ‘rigid’ structure for the activity, which drives it. Then, I suggest to design for ‘free movement’ using concepts from game studies, such as self-effacing play [4], ‘unachievement’ and festive contexts [13], coliberation [3], and transformative play [12].

This makes the structure of the activity flexible enough to afford its exploration, appropriation, bending, and transgression by the players. In the Play BOOST framework, I encourage to pay attention to when this happens, keeping an eye out for how, and what happens [10].

A research question
Two case studies have been used to develop the PLAY BOOST framework: the first one is about designing body games for a limited movement-based game platform, the Oriboo [9, 10] (See Figure 1); the second case study is about re-designing rehabilitative physiotherapy sessions for the elderly of an assisted living facility [8, 10] (See Figure 2, and 3). Both share the traits of being technology-supported, co-located, physical, and social activities [10].

The framework has been very useful in both scenarios. However, having been both design cases conducted by myself, the usefulness of the framework remains in the very subjective sphere of my personal assessment. Therefore, the first research question:

Is the Play BOOST framework a suitable design and analysis tool for game designers in a game jam like the Game Jam [4Research]?

Unveiling the answer to this question, as well as other secondary follow-up question, like why? will surely shed some light to the following steps in my PhD. More questions spur from the main one: Is the Play BOOST framework clear enough to be understood? Is it ready to hand? If not, what is missing/lacking? What are its strengths and weaknesses? Does it inspire the designs? In which ways? Does it help in the evaluation of the...
designs? How? Is it preferred as an inspiration tool for
to give to the colleagues in my group prior to the
workshop, as well as some questionnaires and/or semi-
structured interviews. During the workshop, if possible
and non disruptive to the game jamming, I will briefly
explain my research question to my teammates. When
discussing what to design, I will suggest designing for
co-located social and physical play. If the group
embraces this suggestion and is happy to try out the
Play BOOST framework, I will provide the handouts and
will very briefly introduce it. Finally, at the end of the
workshop, I will hand in the questionnaires and/or
conduct the interviews.

A position statement

I see the Game Jam [4Research] as a great opportunity
to help me see my work through the eyes of other
researchers and game designers and therefore obtain
valuable feedback that will help me in my PhD.

I am lucky enough to have participated in last year’s
Game Jam at CHI 2013, which I truly enjoyed. That
was the first game jam in which I was involved and it
surprised me positively. It was exciting and really fun,
which was expected. However, I recall that it inspired
me: I wondered about the potential that game jamming
had for research and thought it would be great to try it
out in my research environment.

However, time and resources constraints pushed this
idea to the background and I never got to make it
happen.

Fortunately, the seed of using such these events in
research were there for more than myself, and this
year’s game jam revolves around its use as a research
method.

In this paper, I have posted several research questions
that I would very much like to address during the game
jam. However, I am aware that I might not manage to
answer them—my experience from last year tells me
how much time is pressing, for instance. Be that as it
may, looking into whether I am able to pursue the goal
of researching my research question(s), and the
possible reasons behind, are interesting questions for
me as well. And finally, even in the worst-case scenario
of none of these questions being addressed, my
experience in last year’s game jam tells me that it is
still worth participating! We had so much fun both
designing our game and playing all of the rest of the
games! Not to mention the great people I got to know.
For this and much more, I would really like to repeat!

Short bio, skills, and expertise

This is Elena Márquez Segura, Ph.D. student in Uppsala
University, Uppsala, Sweden. I find myself in the
middle of my PhD, having recently presented my
licentiate thesis [10] in Mobile Life @ Stockholm
University, under the supervision of Annika Waern and
Kristina Höök. The licentiate is a thesis that, once
mandatory in Sweden and now optional, compiles the
work done during the first years of the PhD and draws
the future plan for the rest of the PhD. I was lucky to
count with Oskar Juhlin as my examiner, and Florian
‘Floyd’ Mueller as my opponent.

After the presentation of my licentiate, I moved to
Melbourne, for a three-month internship in the Exertion
Games Lab @ RMIT University, supervised by Florian
‘Floyd’ Mueller.
Regarding my background, I have a Bachelor & Master degree in Telecommunication Engineering (Escuela Técnica Superior de Ingenieros, Sevilla) and I have also studied a master in Interactive Systems Engineering (KTH, Stockholm). During my master thesis, I was part-time employed in Mobile Life, becoming a full-time research assistant at the end of it, which continued until I started my PhD in the centre at the end of 2011. Currently, my research revolves around designing for and studying playfulness in co-located social and physical activities.

Regarding my skills, my mixed background grants me the possibility to design, balancing user and technology perspectives. I have experience in designing games and game-like activities that feature the body as key in the interaction. I also have extensive experience in conducting user studies with games, robots and robotic technology (LIREC project [7]). More about me in:

- [http://mobilelifecentre.org/people#elena-marquez-segura](http://mobilelifecentre.org/people#elena-marquez-segura)
- [http://elenamarquezsegura.wordpress.com/](http://elenamarquezsegura.wordpress.com/)

### References


