

Carl Faia Harrison

Sonic Arts Convenor, Admissions Tutor
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University Education and qualifications

- 2013 – 2016 Brunel University London:
 PhD Arts and Humanities
*Collaborative Computer Music Composition and the Emergence of the
 Computer Music Designer* (<http://bura.brunel.ac.uk/handle/2438/11917>)
- 2014 Fellow of the Higher Education Academy, License PR069035;
- 1995 – 1996 IRCAM Composers Course: advanced studies and research in computer
 assisted composition, sound synthesis, psychoacoustics, and analysis
 techniques.
- 1993 *Centre Acanthes*, Avignon, France, master classes in composition, and
 advanced theory and analysis with Harrison BIRTWISTLE, Klaus HUBER and
 Gérard GRISEY.
- 1993 IRCAM *Summer Academy*, Paris, France, advanced studies in computer
 technology and composition with Tristan MURAIL and Philippe MANOURY;
- 1993 *Ecole Normale de Musique*, Paris, France, studies with Yoshihisa TAÏRA;
- 1991 – 1992 Royal Academy of Music, Aarhus, Denmark, Advanced Composers Class with
 Karl Aage RASMUSSEN and Hans ABRAHAMSEN and Per NORGAARD;
- 1989 – 1991 Florida State University, Tallahassee, Florida, graduate studies with Ladislav
 KUBIK;
- 1985 – 1989 University of California, Santa Barbara (BA in Music/Composition with
 honours, 1988), composition studies with Peter Racine FRICKER and Edward
 APPLEBAUM;

Educational Grants, composition prizes

- 1993 Scholarship *Centre Acanthes*, Avignon, France;
- 1992 Danish Fulbright Commission Grant for Lerchenborg Master classes;
- 1992 Danish Composers Society Grant *Esbjerg Ensemble* Workshop;

1991 – 1992 Denmark;	Fulbright Grant for composition at the <i>Royal Academy of Music</i> , Aarhus,
1990	<i>Contemporary Recording Society</i> Grant to record <i>Songs From a Child's Garden</i> ;
1989	Pierre Boulez Festival Fellowship, Los Angeles;
1988 – 1989	Sherrill C. Corwin Prize for excellence in music composition, University of California, Santa Barbara: Orchestral music award for <i>Fingerpainting</i> , Chamber music award for <i>Across the Night</i> , Vocal music award for <i>Songs From a Child's Garden</i> ;
1988	University of California, Santa Barbara Regents Fellowship;
1988	<i>Music Academy of the West</i> Scholarship;
1988	ASCAP Foundation Grants to Young Composers Competition Finalist;
1986, 1989	Selection University of California Young Composers Festival;

Professional experience

2009 – Present	Lecturer in Music, Sonic Arts, Brunel University London. Convenor Sonic Arts BA, taught modules in undergraduate and graduate courses including techniques, repertoire and practice (concerts, installations, real world projects), doctoral supervision; administrative duties include admissions tutor and coordination with the Brunel marketing for web presence; responsible for creating and running the MusicBru blog (musicbru.wordpress.com) and related social media for the Music Department; collaboration on the creating and teaching of the new MA in Experimental Music, experience in creating and running new modules throughout the undergraduate curriculum. I have devised and run modules for all levels of students to teach the fundamentals of recording technology and sonic arts.
2006 – Present	International Computer Music Conference (ICMC) Paper Judging team.
2003 – Present	Freelance Computer Music Designer: Independent projects with live electronics, computer music interaction, and new human interfaces with computers; research with Brunel University composers Peter Wiegold, John Croft and cellist Matthew Barley; Luca Francesconi, <i>Gesualdo Considered as Murderer</i> for the Holland Festival; Jonathan Harvey, <i>Two Interludes for an Opera</i> ; James Dillon, <i>Philomela</i> for T&M Productions, France and the Casa de Musica in Porto, Portugal; Vikintas Baltakas, <i>Cantio</i> for the Munich Biennial and Gaida Festival in Vilnius.
2003 – 2016	<i>Art Zoyd Studios</i> Valenciennes, France: Collaborative productions and residencies with composers/artists including François-Bernard Mâche, Ulrich Krieger, Reinhold Friedl and Zeitkratzer, Ricardo Nova, James Dillon, Garth Knox, Luca Francesconi, Clara Maïda, Carol Robinson and David Hudry, as well as research projects including the development of MaxBrola with the Polytechnique in Mons, Belgium. Responsibilities included running residencies, preparing concerts, grant proposals, and creative input. I arranged music for ensembles, taught a successful course in electroacoustic music composition, in collaboration with André Serre-Milan, and performed with Art Zoyd on several projects.
2003 – 2006	<i>Forum Neues Musiktheatre der Staatsoper</i> Stuttgart, Germany: Music theatre and research projects with composers including Hans Thomalla, Jorg Mainka, Hans Tutschku, Lucia Rochetti as well as MaxMSP/Jitter workshops.

- 2002 – 2004 Cofounder of non-profit associations *Lieu* and *synArt* with projects including the development of RMI (Real-time modal Instrument) based on the Modalys code in collaboration with IRCAM.
- 2000 – 2002 Studio Director at CIRM (Centre International de Recherche Musicale, CNCM), Nice, France Productions including J. Harvey, F. Romitelli, E. Champion, F. Baschet. Responsibilities including remodelling the studios with modern equipment, taking care of studio logistics of preparing and running the MANCA festival, buying material, budgeting projects, applying for grants as well as collaborating with composers and teaching workshops.
- 1997 – 1999 Development Coordinator for the program Diphone.
- 1995 – 2000 Musical assistant RIM, Computer Music Designer) at *IRCAM*, Paris, Productions including: P. Leroux (first work created using sounds created with IRCAM's Diphone), J. Wood (first work the Ambisonics technique within the IRCAM Spatialisateur), A. Viñao, P. Marcland, D. Cohen, B. Pauset, J. Dillon (first work created using the VBAP technique with the IRCAM Spatialisateur), and the Orchestre Nationale de Jazz; Porting of several pieces to Max/MSP including Tristan Murail (first work played at IRCAM with Max/MSP), L. Nono and K. Stockhausen.
- 1995 Development of **MaxAlea**, library of externals written in C, for the Max environment.
- 1994 Musical assistant to Harrison BIRTWISTLE on the revised version of the opera *GAWAIN*.
- 1992 Coordinator and co-founder of *Ensemble 2000*, Aarhus, Denmark (1992).
- 1991-1993 Board member of the Young Composers Society, Aarhus, Denmark Co-Artistic Director (Spring 1992).
- 1990 – 1991 Assistant Director of the Biennial Festival of New Music Florida State University.
- 1989 – 1990 Assistant Director for the *New Music Ensemble* of Florida State University.
- 1988 – 1989 Coordinator for the Composers Concert Series at the University of California, Santa Barbara.

Conferences, seminars

- International Guitar Research Centre (IGRC) Conference at Surrey University March 19, 2016: *Mingus: a programme for a new approach to teaching swing: augmented technology and the guitar* (<http://www.surrey.ac.uk/schoolofarts/research/guitar/>)
- Music at Brunel Seminar Series, February 24, 2016, *Ondes Martenot: The New Wave*, with Nadia Ratsimandresy (<https://musicbru.wordpress.com/2016/02/19/music-brunel-with-nadia-ratsimandresy-and-carl-faia/>)
- Centre for Contemporary Music Practice, Brunel University London, March 10 2014, *Ring modulators, feedback and matrices: Realising Stockhausen for the Digital Age*

- JIM 2012 *Computer Music Days* in Mons, Belgium, Conference, presentation of the paper *Kinectic Waves at Art Zoyd Studios* (<http://www.jim2012.be/actes/>)
- *MaxMsp Jitter workshops (2011-2014) with the University of Valenciennes in the framework of scenic and installation coursework*
- Seminar "Creation in France": DESS "La France en Perspective", Lille, France (February 2004);
- "Creation"; DESS "La France en Perspective", Lille, France (March 2003)
- "Assistant Musical ou Producteur ? esquisse d'un nouveau métier", with M. Poletti and T. Mays, *Journées d'Informatique Musicale*, GMEM, Marseille, France (May 2002)
- "IRCAM" ; DESS "La France en Perspective", Leyden, Netherlands (November 1999)
- Presentations, interventions and workshops for the Forum and composers classes at IRCAM (1996-2000)
- "Focus: New Music, Simplicity/Complexity," a series of lectures and demonstrations on contemporary music, Aarhus, Denmark (April 1992)
- "The Contemporary Composer's World in America," a symposium on the Arts in America, Aarhus, Denmark (March 1992)
- "Motivic Unity in the Freely Composed Motets of Josquin Desprez" : paper delivered at the Eighth Annual Theory Forum, Florida State University (April 1990).

Current and forthcoming projects

- *Together We Can*, Chelsea Flower Show, interactive sound installation in collaboration with Peter Eustance, the Papworth Trust and Dame Evelyn Glennie with undergraduate students from my sonic arts modules and PhD student Ardeshir Gourtani (January – May 2016; further developments are planned);
- Forthcoming CD with Stockhausen Nr 19 *Solo* arranged for ondes Martenot and electronics, recorded by Nadia Ratsimendrazy (mid 2017);
- Sound Festival (September, 2016), Scotland: with Colin Riley on the Made2Resonate project with live electronics and video;
- New work with Thomas Köner, Fall 2017;
- Commission for ondes Martinot and electronics with a grant from the Diaphonique Foundation, Fall 2018;
- *Wave Studies: Wake*, for ondes Martenot and electronics; premiered at the *Why Note Festival* in Dijon, France November 24 2015, on tour in 2016 in festivals in Copenhagen, Geneva and France;
- *Eclats Festival* (January 2017) in Stuttgart and Radio France performances of Clara Maïda's *Web Wave* for ensemble, live electronics and video;

- Computer Music Designer: Clara Maïda Web Wave for ensemble, live electronics and video, CESARE Studios CNCM, Reims, France;
- Computer Music Designer, creating the Therpopatch for the new instrument, the Oliothepe, with Patricia Dallio, Paris, France (2012 - present).

Current Research Projects

- * PhD completed with plans to publish this in some more condensed form: *Collaborative computer music composition and the emergence of the computer music designer*
<http://bura.brunel.ac.uk/handle/2438/11917>
- * Collaboration with Dr Ian Kill, biologist in Life Sciences at Brunel, on a project of sonification of diseased cells in his research. Wellcome Trust bid is being written. PhD student, Ardeshir Gourtani will be using this in his doctoral thesis.
- * Collaboration with Milton Mermikides, Surrey University, on a long-term project centered on the use of technology in pedagogy, performance and creation. First presentation at the International Guitar Research Centre conference in March 2016 with plans to publish a paper after the conference. <http://www.surrey.ac.uk/schoolofarts/research/guitar/>

The Extended Guitar: Integration of the guitar with Max/MSP in pedagogy, performance, analysis and composition

This lecture-recital presents some outputs from an ongoing collaborative project between Faia and Mermikides, both of whom are composers, programmers, educators and guitarists. The project offers a suite of tools to the contemporary creative practitioner which use digital programming (within the very flexible Max/MSP language) for analysis, pedagogy, performance and composition. The project is founded on a range of research fields and includes tools for tuning accuracy (and micro-tuning), fretboard knowledge (using Neo-Riemmanian Theory), and compositional and live performance resources (based on for example Arvo Pärt's Tintinabulli technique, Frippertronic, Slonimsky and Schillinger techniques and Eno feedback systems).. However the centrepiece of the presentation is a uniquely presented visual metronome which offers the player accurate and stylistically relevant live feedback, micro-rhythmic analysis, and powerful pedagogical and creative engagement with the beat, beat group, meter and hypermetric time domains.

- * *Composition Wave Studies: Wake* for ondes Martenot and electronics premiered at the *Why Note Festival* in Dijon, France, and recently performed at *the Electron Festival* in Geneva in collaboration with the *Junebug Dance Company* of Geneva. This work is being performed at festivals in Copenhagen and Paris with possible presentations in the US and China.
- * Grant funded by the **Diaphonique Foundation**, Franco-British fund for Contemporary Music, for a future project with John Croft, myself and student composers from Brunel and *Why Note Festival* in Dijon, France (2017-2018).
- * Ongoing project on a new work as Computer Music Designer with French composer Clara Maida at CESARE Studios in Reims, France. Next residency in May/June 2016.
- * *L'Oliothepe et la Teneur de l'air*: a documentary realised by Andreas Rathgeb, based on the composer/performer Patricia Dallio and the instrument created for her using, my conception and programming of Max and interactive technologies to create an original and viable musical instrument. We have applied for grants from French cultural programmes to finance the project. Residency in the studios of the Château de Faverolles, France, May/June (2016-2017).

Compositions

- *Wave Studies: Ripples and Solitons* (2017) ondes Martenot and electronics, commissioned by Why Note Festival, Dijon
- *Wave Studies: Wake* (2015) ondes Martenot and electronics, commissioned by Art Zoyd Studios
- *Certain chemin...* (2006) soprano, Disklavier and electronics, commissioned by Forum Neues Musiktheatre der Staatsoper Stuttgart
- *Bombay* (2000), music for documentary, commissioned by *Les Films d'Ici*
- *What if I just said...* (1998) piano and electronics, commissioned by Guy Livingston
- *Drift* for string trio (1996-97), commissioned by l'Ensemble SIC
- *Sisyphus Sleeps* (1995), flute solo, *Antigone* (magazine), Paris, May 1995, published by Éditions Henry Lemoine
- *Lointains* pour piano (1994), commissioned by Patrick Jovell and the Swedish Collianders Foundation
- *Preludio al Inferno* (1993), percussion and violoncello
- *Twilight Stanzas and Dream Tango* (1993), guitar and oboe, commissioned by Erling Møldrup and the Danish Arts Foundation
- *Sanctuary* (1992), string quartet, for the *Kontra Quartet* (Denmark)
- *Quiet Voices* (1992), bass solo and choir a cappella, commissioned by the Aarhus Male Chorus and Aage Haugland
- *Gouache* (1992), guitar solo, commissioned by the Aarhus Young Composers Society for Erling Møldrup
- *PS* (1992), trumpet solo
- *The City in the Sea* (1991), soprano, viola and violoncello on texts by Edgar Allan Poe, commissioned by Barbara Ford
- *An Angry Darkness* (1991), flute, clarinet, violin, violoncello and piano, commissioned by the *New Music Ensemble* of Florida State University
- *Legion* (1990), piano solo, commissioned by the Festival *Eight Days of Dance* in Tallahassee, Florida
- *Songs From a Child's Garden* (1989), soprano and piano on the texts of Robert Louis Stevenson
- *Ou quelque chose comme ça* (1989), tape

- *Prayer to Saint Jude* (1989), choir a cappella, commissioned by the University Choir of Santa Barbara
- *Across the Night* (1987) clarinet, viola et piano
- *Fingerpainting* (1987), orchestra
- *The Sick Rose* (1987), soprano and flute on a text of William Blake
- *Minim* (1986), two pianos
- *Prelude* (1986), piano
- *Adagio* (1985), flute

Performances and recordings

Wave Studies: Wake (2015)

Nadia Ratsimandresy, Ici l'onde Festival, Dijon, France, 2015

On tour in Geneva, Copenhagen, Montbéliard, Stockholm, 2016-2017

Certain chemin... (2006)

Sarah Sun, Forum Neues Musiktheatre der Staatsoper, Stuttgart, Germany 2006

Lointains (1994)

Andrew Russo, MANCA Festival, Nice, France, 2001

Noriko Kawai, The Warehouse, London, 2005

Bombay (2000)

Paris Première, L'écume des villes, television, 2000

Cinematique de Paris, 2000

What if I just said... (1998)

The Hague, European tour Spring 1998

Recorded on compact-disc [Don't Panic • 60 Seconds For Piano](#) (WERGO – WER 6649 2)

Drift (1996-97)

Ensemble SIC, Theatre de Renard, Paris, France, February, 1997

Sisyphus Sleeps (1995)

Published in *Antigone* (magazine), Paris, May 1995

published by Éditions Henry Lemoine, Paris 1996

Richard Craig, BEAM Festival, Brunel University London 2012

Richard Craig, Sound Festival, Aberdeen 2013

Preludio al Inferno (1993)

Ensemble Contrechamps, reading at Centre Acanthes, Avignon, France, 1993

Sanctuary (1992)

Kontra Quartet, Aarhus Festival, Denmark, 1992

Gouache (1992)

Erling Møldrup, Copenhagen Festival of Music, 1992
 Erling Møldrup, Asminderød Kirke, Copenhagen, 1992
 Erling Møldrup, Denmark's Radio broadcast, 1992

The City in the Sea (1991)

NUMUS Festival, Aarhus, Denmark, 1992
 Barbara Ford and the *New Music Ensemble* of Florida State University, 1992
 Royal Conservatory of Music, Copenhagen 1992
 Royal Academy of Music, Aarhus, Denmark, 1992

An Angry Darkness (1991)

New Music Ensemble of Florida State University, 1991
 6th Biennial Festival of New Music Tallahassee, Florida, 1991
 Radio broadcast on WFSQ, Florida, 1991
Esbjerg Ensemble, Esbjerg, Denmark, 1992
 New Music Ensemble, Perth, Australia, 1994

Legion (1990)

Festival "Eight Days of Dance" (four performances), Tallahassee, Florida, 1991
 Composers Concerts, Florida State University, 1991
 Dance Performance, Tallahassee, Florida, 1991
 Royal Academy of Music, Aarhus, Denmark, 1992

Songs From a Child's Garden (1989)

Composers Concert Series, University of California Santa Barbara, 1989
 Barbara Ford, Tallahassee, Florida, 1991
 Royal Academy of Music, Aarhus, Denmark, 1992
Recorded on compact-disc CRS CD9255, Contemporary Recording Society

Prayer to Saint Jude (1988)

University Choir under Karl Zytowski, Santa Barbara, 1989

Across the Night (1987)

Reading by the *Da Capo Chamber Players*, 1988
Music Academy of the West, 1988
New Music Ensemble of Florida State University, 1990
 Radio broadcasts on WFSU, 1990, 1991

Fingerpainting (1987)

Reading by the *Music Academy of the West* Orchestra, 1988
 Reading by the University of California Orchestra, Santa Barbara, 1989

Adagio (1985)

Ventura College Spring Festival, Ventura, 1985
 Student Composers Festival, University of California, 1986

Other:

- Languages: English, native; French, fluent;
- Computer literacy: Mac OS systems, MaxMSP/Jitter, Logic Pro, ProTools, programming languages C and Common LISP, and IRCAM Forum programmes (AudioSculpt, Diphone, Modalys, Open Music), Microsoft Office

Appendix 1

Table showing collaborations with composers from 1996 to 2014.

	Collaboration with Composer/Creator	Year Start	Project Name	Type: R = real-time S = Studio C = combined P = portage	Associated studio
1	Leroux, P.	1996	M	C	IRCAM
2	Durieux, F.	1997	Devenir (1993)	P	IRCAM
3	Wood, J.	1997	Mountain Language	C	IRCAM
4	Cohen, D.	1998	Voile	C	IRCAM
5	Marcland, P.	1998	Le Jour d'avant	S	IRCAM
6	Dillon, J.	1999	La Coupure	C	IRCAM
7	Levallet, D.	1999	Carmi-1	C	IRCAM (ONJ)
8	Nono, L.	1999	A Pierre (1985)	P	IRCAM
9	Pauset, B.	1999	A, Passion profane	C	IRCAM
10	Stockhausen, K.	1999	Solo (1965)	C	IRCAM
11	Viñao, A.	1999	Epitafios	C	IRCAM
12	Harvey, J.	2001	The Summer Cloud's Awakening	C	CIRM, Nice
13	Romitelli, F.	2001	Amok Koma	C	CIRM, Nice
14	Verrando, G.	2001	Work in progress	S	CIRM, Nice (unfinished)
15	Baschet, F.	2002	Filastrocca	C	CIRM, Nice
16	Campion, E.	2002	Me	C	CIRM, Nice
17	Nova, R.	2003	Eleven	C	Art Zoyd
18	Ronchetti, L.	2003	Last Desire	C	FNM, Stuttgart
19	Serre-Milan, A.	2003	De Rerum Natura	S	Art Zoyd
20	Baltakas, V.	2004	Cantio	C	Munich Biennial
21	Dillon, J.	2004	Philomela	C	Freelance T&M (also video)
22	Francesconi, L.	2004	Gesualdo	C	Holland Festival
23	Harvey, J.	2004	Two Interludes for an opera	C	Freelance
24	Mainka, J.	2004	Voyeur	C	FNM, Stuttgart
25	Phil Von	2005	Compass	C	Art Zoyd

26	Tutschku, H.	2005	Die Suesse unserer traurigen Kindheit	C	FNM, Stuttgart
27	Croft, J.	2006	Sonata	S	Freelance
28	Thomalla, H.	2006	FREMD	C	FNM, Stuttgart
29	Todoroff, T.	2006	Reminiscences	C	Art Zoyd
30	Wiegold, P.	2006	The Burden'd Air	C	Freelance
31	Wishart, S.	2006	Quartet Project	S	Freelance
32	Dailleau, L.	2007	EyeCatcher	S	Art Zoyd
33	Dallio, P.	2007	Le parvis des ondes	C	Art Zoyd
34	Friedl, R.	2007	Feedbag	C	Why Note/Art Zoyd
35	Kreiger, U.	2007	Performance Patch	S	Art Zoyd
36	Toeplitz, K.	2007	Eau Blanche	S	Art Zoyd
37	Knox, G.	2008	Beowulf, Part 1	C	Art Zoyd
38	Cifuentez, M.	2009	Mue	S	Art Zoyd
39	Dubois, K.	2009	Traversées	S	Art Zoyd
40	Nordin, J.	2009	Pendants	C	Art Zoyd
41	Bertocchi, S.	2010	Stockhausen/ Reich	S	Art Zoyd
42	Dallio, P.	2010	Stabat mater furiosa	C	Freelance
43	Dillon, J.	2010	Nine Rivers	P	BBC Freelance/various pieces with electronics
44	O'Malley, S.	2010	This Is How You Will Disappear - Gisèle Vienne	S	Art Zoyd
45	Robinson, C.	2010	Laima	C	Art Zoyd
46	Viñao, A.	2010	Chicos 21	S	Art Zoyd
47	Barrière, J.B.	2011	Crossing a Blind Forest	S	Art Zoyd
48	Breschand, H.	2011	Improvisational Max patch	S	Art Zoyd
49	Robinson, C.	2011	Billows	C	Freelance
50	Dallio, P.	2012	Dans la nuit la plus claire jamais rêvée	C	Freelance
51	Harvey, J.	2012	Ashes Dance Back	P	Faber Music
52	Lopez Lopez, J.	2012	Vibra Zoyd	C	Art Zoyd
53	Robinson, C.	2012	Titi	C	Freelance

54	Sikora, E.	2012	Happy Valenciennes	C	Art Zoyd
55	Wending, W.	2012	Müller Machine	S	Art Zoyd
56	Mariusse, L.	2013	Gagaku	C	Art Zoyd
57	Pape, G.	2013	Why Poets	C	Art Zoyd
58	Ratsimandresy, N.	2013	Année Zero	C	Art Zoyd
59	Dallio, P.	2014	In progress	S	CESARE, Freelance
60	Maïda, C.	2014	In progress	C	Art Zoyd, Freelance
61	Pargas, PJ	2014	In progress	C	Art Zoyd